

NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY NAVAL AIR STATION, PENSACOLA, FL 32508-5700

AD-A259 084

BIBLIOGRAPHY OF SCIENTIFIC PUBLICATIONS 1977-1991

Compiled by

K. S. MAYER





92 12 16 066

. Reviewed and approved 23 frame 92

A. J. MATECZUN, CAPT, MC USN Commanding Officer



REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden. to Washington Heursplanters Services, Directorate for information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave bla	nk) 2. REPORT DATE	3. REPORT TYPE AND DATE	S COVERED		
	June 1992	1977-1991			
	ENTIFIC PUBLICATIONS 1	S. FUI	NDING NUMBERS		
6. AUTHOR(S)			·		
Compiled by K. S. Mayer					
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Naval Aerospace Medical Research Laboratory Bldg. 1953, Naval Air Station Pensacola, FL 32508-5700			FORMING ORGANIZATION ORT NUMBER		
			ONSORING/MONITORING ENCY REPORT NUMBER		
11. SUPPLEMENTARY NOTES #14 (cont): vision, sviator, SNA, operational environment, dosimetric, vestibulo-ocular, circadian rhythm, age, hazard, waveguide, hypothermia, acceleration, operant behavior, rhesus, hyperthermia, cardiopulmonary, biofeedback, landing signal officer, motor activity, Macaca mulatta, operant behavior, rat, fleet, pilot, psychomotor, pipeline, glare, gaze.					
12a. DISTRIBUTION/AVAILABILITY		12b. D	ISTRIBUTION CODE		
Approved for public release	; distribution unlimited.				
13. ABSTRACT (Maximum 200 work	ds)				
This publication lists citations of all unclassified research reports, special reports, monographs, joint reports, journal articles, and proceedings that were published by the Naval Aerospace Medical Laboratory during calendar years 1977 through 1991. Reprint requests should be addressed to the Defense Technical Information Center, Cameron Station, Alexandria, VA 22314.					
14 laser, recipiently, motion sickness, horizon, absorption, auditory, magnetic field, nonionizing radiation, sensory, rewarming, performance battery, fitness, G-tolerance, GLOC, SAR, ELF, retention, selection, personality, exercise, aviator, speech, systagmus, vestibular, acoustic, primate, noise, model, man model.			15. NUMBER OF PAGES 44 16. PRICE CODE		
antimotion, LCAC, (cont in #11) 17. SECURITY CLASSIFICATION UNCLEASSIFIED	18. SECURITY CLASSIFICATION UNCLEASS PRED	19. SECURITY CLASSIFICATION UNCERTSOFFIED	20. LIMITATION OF ABSTRACT SAR		

CONTENTS

NAMRL PUBLICATIONS 1977		1
NAMRL PUBLICATIONS 1978	• • • • • • • • •	4
NAMRL PUBLICATIONS 1979		8
NAMRL PUBLICATIONS 1980	1	2
NAMRL PUBLICATIONS 1981	1	5
NAMRL PUBLICATIONS 1982		8
NAMRL PUBLICATIONS 1983	2	0
NAMRL PUBLICATIONS 1984	2	2
NAMRL PUBLICATIONS 1985	2	4
NAMRL PUBLICATIONS 1986		6
NAMRL PUBLICATIONS 1987	2	9
NAMRL PUBLICATIONS 1988	3	2
NAMRL PUBLICATIONS 1989	3	5
NAMRL PUBLICATIONS 1990	3	8
NAMRL PUBLICATIONS 1991	4	1

Accesion For				
NTIS CRA&I DTIC TAB Unannounced Justification				
By Distribution /				
Availability Codes				
Dist	Avail and / or Special			
A-1				

- Baisden, A.G., Ambler, R.K., and Lane, N.E., An Assessment of Naval and Marine Aviation Students'

 Attitudes Toward Women With Specific Reference to Naval Aviation, NAMRL-1242, Naval Aerospace

 Medical Research Laboratory, Pensacola, FL, November 1977. (AD A049 139)
- Brown, R.J., "An Air Force Veterinary Officer Finds Unique Research Opportunities in Assignment: Indonesia." USAF Medical Service Digest, pp. 25-27, January-February, 1977.
- Brown, R.J., Cole, W.C., Berg, H.S., Chiang, H.S., Chang, P.C., and Banknieder, A.R., "Nasal Adenocarcinoma in a Taiwan Macaque." *Veterinary Pathology*, Vol. 14, pp. 294-296, 1977.
- Brown, R.J., Kessler, M.J., and Kupper, J.L., "Myocardial Fibrosarcoma in Rhesus Monkey." Laboratory Animal Science, Vol. 27, pp. 524-525, 1977.
- Carney, W.P., Brown, R.J., Van Peenen, P.F.D., Purnomo, Ibrahim, B., and Koesharjono, C.R., "Scistosoma Incognitum From Chikurai, West Java, Indonesia." *International Journal of Parasitology*, Vol. 7, pp. 361-366, 1977.
- Carney, W.P., Purnomo, Van Peenen, P.F.D., Brown, R.J., and Sudomo, M., "Schistosoma Incognitum From Mammals of Central Sulaweki, Indonesia." *Proceedings of the Helminthological Society of Washington*, Vol. 44, pp. 150-155, July 1977.
- Collins, W.E. and Lentz, J.M., "Some Psychological Correlates of Motion Sickness Susceptibility." Aviation, Space, and Environmental Medicine, Vol. 48, pp. 587-594, 1977.
- Correia, M.J., Nelson, J.B., and Guedry, F.E., "Antisomatogyral Illusion." Aviation, Space, and Environmental Medicine, Vol. 48, pp. 859-862, 1977.
- de Lorge, J.O., Operant Behavior and Colonic Temperature of Squirrel Monkeys (Saimiri sciureus) Luring Microwave Irradiation, NAMRL-1236, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1977. (AD A043 706)
- de Lorge, J.O., "Review of Behavior and Learning by H. Rachlin." AAAS Science Books and Films, Chapter XIII, p. 5, 1977.
- de Lorge, J.O., "Review of Particulars of My Life by B.F. Skinner." AAAS Science Books and Films, Chapter XIII, pp. 5-6, 1977.
- de Lorge, J.O. and Grissett, J.D., "Behavioral Effects in Monkeys Exposed to Extremely Low Frequency Electromagnetic Fields." *International Journal of Biometeorology*, Vol. 21, pp. 357-365, 1977.
- Doll, R.E., "Estimating the "True" Validity of the Naval Aviation Selection Test Battery." Scientific Meeting of the Aerospace Medical Association Proceedings, Las Vegas, NV, May 1977, pp. 24-25.
- Frank, L.H., The Effects of Stimulus Orientation and Response Bias Upon Dynamic Visual Acuity, NAMRL-1241, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1977. (AD A047 827)

- Frisch, G.D., D'Aulerio, L., and O'Rourke, J., "Mechanism of Head and Neck Response to -G_x Impact Acceleration: A Math Modeling Approach." Aviation, Space, and Environmental Medicine, Vol. 48, pp. 223-230, 1977.
- Gilson, R.D., Stockwell, C.W., and Guedry, F.E., Jr., Conditioned Suppression of Vestibular Nystagmus With Visual Stimuli, NAMRL-1233, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1977. (AD A033 937)
- Graybiel, A. and Knepten, J., "Evaluation of a New Antinauseant Drug for the Prevention of Motion Sickness." Aviation, Space, and Environmental Medicine, Vol. 48, pp. 867-871, 1977.
- Graybiel, A. and Lackner, J.R., "Comparison of Susceptibility to Motion Sickness During Rotation at 30 rpm in the Earth-Horizontal, 10 Degrees Head-up, and 10 Degrees Head-down Positions." Aviation, Space, and Environmental Medicine, Vol. 48, pp. 7-11, 1977.
- Graybiel, A., Miller, E.F., II, and Homick, J.L., "Experiment M-131. Human Vestibular Function." In R.S. Johnston and L.F. Dietlein (Eds.), Biomedical Results From Skylab, NASA SP-377, U.S. Government Printing Office, Washington, DC, 1977, Section II, pp.74-103.
- Griffin, G.R. and Mosko, J.D., Naval Aviation Attrition: 1950-1976. Implications for the Development of Future Research and Evaluation, NAMRL-1237, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1977.
- Grissett, J.D., Kupper, J.L., Kessler, M.J., Brown, R.J., Prettyman, G.D., Cook, L.L., and Griner, T.A.,

 Exposure of Primutes for One Year to Electric and Magnetic Fields Associated With ELF

 Communications Systems, NAMRL-1240, Naval Aerospace Medical Research Laboratory, Pensacola,
 FL, November 1977. (AD A055 399)
- Guedry, F.E., Jr., Visual Counteraction of Nauseogenic and Disorienting Effects of Some Whole-body Motions— A Proposed Mechanism, NAMRL-1232, Naval Aerospace Medical Research Laboratory, Pensacola, FL, February 1977. (AD A038 767)
- Guedry, F.E., Jr. and Benson, A.J., Coriolis Cross-Coupling Effects: Disorienting and Nauseogenic or Not? NAMRL-1231, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1977. (AD A036 899)
- Kessler, M.J. and Kupper, J.L., "Obstructive Gastric Foreign Body in a Rhesus Monkey (Macaca mulatta)." Laboratory Animal Science, Vol. 27, pp. 388-390, 1977.
- Kessler, M.J. and O'Benar, J.D., "Amelanosis in a Southern Toad (Bufo terrestris)." Veterinary Medicine-Small Animal Clinician, Vol. 72, pp. 638-639, 1977.
- Kupper, J.L., Kessler, M.J., and Cook, L.J., Normal Hematological, Biochemical, and Serum Electrolyte Values for a Colony of Rhesus Monkeys (Macaca mulatta), NAMRL-1230, Naval Aerospace Medical Research Laboratory, Pensacola, Fl., October 1976. (AD A035 228)
- Lackner, J.R. and Graybiel, A., "Somatosensory Motion After-Effect Following Earth-Horizontal Rotation About the Z-Axis: A New Illusion." Aviation, Space, and Environmental Medicine, Vol. 48, pp. 501-502, 1977.

- Lentz, J.M., "Motion Sickness Susceptibility and Related Behavioral Characteristics in Men and Women."

 Aviation, Space, and Environmental Medicine, Vol. 48, pp. 587-594, 1977.
- Lentz, J.M. and Guedry, F.E., Jr., Motion Sickness Susceptibility: A Retrospective Comparison of Labora.ory Tests, NAMRL-1244, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1977. (AD A053 161)
- Lentz, J.M., Holtzman, G.L., Hixson, W.C., and Guedry, F.E., Jr., Normative Data for Two Short Tests of Motion Reactivity, NAMRL-1243, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1977. (AD A053 270)
- Moore, H.J., Lentz, J.M., and Guedry, F.E., Jr., Nauseogenic Visual-Vestibular Interaction in a Visual Search Task, NAMRL-1234, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1977. (AD A039 372)
- Morrison, T.R. and Long, G.M., The Effect of Caffeine on Human Dark Adaptation, NAMRL-1235, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1977. (AD A043 298)
- Mosko, J.D., Hixson, W.C., and Dennis, A.N., Jr., Interior Noise Levels in an Executive Helicopter, NAMRL Special Report 77-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1977. (AD ??????)
- North, R.A., "Task Functional Demands as Factors in Dual-Task Performance." Proceedings of the 21st Annual Meeting of the Human Factors Society, San Francisco, CA, October 1977, pp. 367-371.
- North, R.A. and Griffin, G.R., Aviator Selection 1919-1977, NAMRI. Special Report 77-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, October 1971. (AD A040 105)
- Olsen, R.G., "Insect Teratogenesis in a Standing Wave Irradiation System." Radio Science, Vol. 12, pp. 199-207, 1977.
- Olsen, R.G., Lords, J.L., and Durney, C.H., "Microwave-Induced Chronotropic Effects in the Isolated Rat Heart." Annals of the Biomedical Engineering, Vol. 5, pp. 395-409, 1977.
- Reno, V.R. and de Lorge, J.O., "A Primate Restraint Device for Use in Microwave Biological Research." *IEEE Transactions on Biomedical Engineering*, Vol. BME-17, pp. 201-203, 1977.
- Sanza, J.N. and de Lorge, J.O., "Fixed Interval Behavior in Rats Exposed to Low Power Densities of Microwaves." Radio Science, Vol. 12, pp. 273-277, 1977.
- Smith, A.W., Brown, R.J., Skilling, D.E., Bray, H.L., and Keys, M.C., "Naturally-Occurring Leptospirosis in Northern Fur Seals (Callorhinus ursinus). Journal of Wildlife Diseases, Vol. 13, pp. 144-148, 1977.

- Ambler, R.K. and Guedry, F.E., Jr., A Manual for the Brief Vestibular Disorientation Test, NAMRL Special Report 78-3, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1978.

 (AD A060 455)
- Baisden, A.G., "Research on the Aeronautical Adaptability of Women." In *Proceedings of the 18th Annual Conference of the Military Testing Association*, Gulf Shores, AL, October 1976, pp. 541-550.
- Baisden, A.G. and Doll, R.E., A Comparison of Black Student Performance and White Student Performance in Naval Aviation Training, NAMRL Special Report 78-7, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1978. (AD A065 025)
- Bice, A.S. and de Lorge, J.C., "Response Suppression During Stimuli Temporally Different From the Prefood Stimulus." Bulletin of the Psychonomic Society, Vol. 11, pp. 377-379, 1978.
- Brictson, C.A., Ciavarelli, A.P., Pettigrew, K.W., and Young, P.A., Performance Assessment Methods and Criteria for the Air Combo! Maneuvering Range (ACMR): Missile Envelope Recognition (U), NAVAIRSYSCOM 43-13-8881/NAMRL Special Report 78-4, CONFIDENTIAL REPORT, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1978.
- Brown, R.J., Hodge, F.A., Joseph, P.L., and Tirtarahardja, R., Survival Factors in Laboratory Mice Transported by Air to Remote Laboratories, NAMRL Special Report 78-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1978. (AD A056 944)
- Brown, R.J. and Joseph, P.I., Role of the Veterinary Pathologist on the Tropical Medicine Research Team:

 Observations in Indonesia, NAMRL Special Report 78-5, Naval Aerospace Medical Research
 Laboratory, Pensacola, FL, November 1978. (AD A064 336)
- Brown, R.J., Nolin, C.L., Taylor, D.R., and O'Neill, T.P., "Dermal Cryptococcosis in a Cat." Modern Veterinary Practice, pp. 447-448, June 1978.
- Brown, R.J., Stafford, E.E., Sutani, Dennis, D.T., and Carney, W.P., The Experimental Pathology of the Lake Lindu Strain of Schistosoma Japonicum in the Crab-eating Macaque (Macaca fascicularis) in Indonesia, NAMRL Special Report 78-8, Naval Aerospace Medical Research Laboratory, Pensacola, FL, October 1978. (AD A078 530)
- Correia, M.J. and Guedry, F.E., "Vestibular System: Basic Biophysical and Physiological Mechanisms." In R.B. Masterton (Ed.), *Handbook of Behavioral Neurobiology*, Plenum Publishing Co., New York, Chapter 9, pp. 311-351, 1978.
- Cramer, D.B., Graybiel, A., and Oosterveld, W.J., "Successful Transfer of Adaptation Acquired in a Slow Rotation Room to Motion Environments in Navy Flight Training." Acta Otolaryngologica, Vol. 85, pp. 74-84, 1978.
- Doll, R.E., "A Proposed Selection System in Naval Aviation." In 2nd Annual Department of Defense Psychological Symposium Proceedings, USAF Academy, Colorado Springs, CO, April 1978.

- Egan, D.E., Characterizing Spatial Ability: Different Mental Processes Reflected in Accuracy and Latency Scores, NAMRL-1250, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1978. (AD A060 152)
- Egan, D.E. and Goodson, J.E., Human Factors Engineering for Head-up Displays: A Review of Military Specifications and Recommendations for Research, NAMRL Monograph 23, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1978. (AD A056 944)
- Goodson, J.E., Dynamics of an Image Viewed Through a Rotating Mirror, NAMRL-1252, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1978. (AD A061 517)
- Graybiel, A. and Knepton, J., "Bidirectional Overadaptation Achieved by Executing Leftward or Rightward Head Movements During Unidirectional Rotation." Aviation Space & Environmental Medicine, Vol. 49, pp. 1-4, 1978.
- Graybiel, A. and Knepton, J., "Prevention of Motion Sickness in Flight Maneuvers, Aided by Transfer of Adaptation Effects Acquired in the Laboratory: Ten Consecutive Referrals." Aviation Space & Environmental Medicine, Vol. 49, pp. 914-919, 1978.
- Griffin, G.R. and Hopson, J.A., An Evaluation of the Omnibus Personality Inventory in the Prediction of Attrition in Naval Aviation Training, NAMRL-1253, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1978. (AD A065 001)
- Guedry, F.E., Jr., "Vestibular Function." In U.S. Naval Flight Surgeon's Manual, 2nd ed., U.S. Government Printing Office, Washington, DC, Chapter 3, pp. 1-50, 1978.
- Guedry, F.E., Jr., "Visual Counteraction of Nauseogenic and Disorienting Effects of Some Whole-body Motions: A Proposed Mechanism." Aviation Space & Environmental Medicine, Vol. 49, pp. 36-41, 1978.
- Guedry, F.E., Jr., and Benson, A.J., "Coriolis Cross-coupling Effects: Disorienting and Nauseogenic or Not?"

 Aviation Space & Environmental Medicine, Vol. 49, pp. 29-35, 1978.
- Guedry, F.E., Jr., Benson, A.J., and Moore, H.J., Influence of a Visual Display and Frequency of Whole-body Angular Oscillation on Incidence of Motion Sickness, NAMRL-1247, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1978. (AD A059 314)
- Guedry, F.E., Jr., and Correia, M.J., "Vestibular Function in Normal and in Exceptional Conditions." In R.B. Masterton (Ed.), Handbook of Behavioral Neurobiology, Plenum Publishing Co., New York, Chapter 10, pp. 353-407, 1978.
- Guedry, F.E., Jr., Lentz, J.M., and Jell, R.M., Visual-vestibular Interactions: I. Influence of Peripheral Vision on Suppression of the Vestibulo-ocular Reflex and Visual Acuity, NAMRL-1246, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1978. (AD A059 157)
- Guedry, F.E., Jr., Mortensen, C.E., Nelson, J.B., and Correia, M.J., "A Comparison of Nystagmus and Turning Sensations Generated by Active and Passive Turning." In J.D. Hood (Ed.), Vestibular Mechanisms in Health and Disease, VI Extraordinary Meeting of the Barany Society, Academic Press, London/New York/San Francisco, pp. 317-325, 1978.

- Harris, S.D., Human Performance in Concurrent Verbal and Tracking Tasks: A Review of the Literature, NAMRL Special Report 78-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1978. (AD A060 493)
- Harris, S.D., North, R.A., and Owens, J.M., A System for the Assessment of Human Performance in Concurrent Verbal and Manual Control Tasks, NAMRL-1254, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1978. (AD A063 048)
- Hopson, J.A., Griffin, G.R., Lane, N.E., and Ambler, R.K., Development and Evaluation of a Naval Flight Officer Scoring Key for the Naval Aviation Biographical Inventory, NAMRL-1256, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1978. (AD A141 523)
- Hutchins, C.W., Jr., The Relationship Between Air Combat Maneuvering Range (ACMR) Output Measures and Initial Visual Acquisition Performance, NAMRL Special Report 79-1, Naval Aerospace Medical Research Laboratory, Persacola, FL, August 1978. (AD A062 134)
- Kessler, M.J., Brown, R.J., Kupper, J.L., and O'Neill, T.P., "Breeding Rhesus Monkeys (Macaca mulatta) in Captivity." Florida Veterinary Journal, pp. 16-19, June 1978.
- Kessler, M.J., Kupper, J.L., Grissett, J.D., and Brown, R.J., Selection and Paring of "Normal" Rhesus Monkeys (Macaca mulatta) for Research, NAMRL Special Report 78-6, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1978. (AD A064 426)
- Lackner, J.R. and Graybiel, A., "Postural Illusions Experienced During Z-axis Recumbent Rotation and Their Dependence Upon Somatosensory Stimulation of the Body Surface." Aviation, Space, & Environmental Medicine, Vol. 49, pp. 484-488, 1978.
- Lackner, J.R. and Graybiel, A., "Some Influences of Touch and Pressure Cues on Human Spatial Orientation." Aviation Space & Environmental Medicine, Vol. 49, pp. 798-904, 1978.
- MacIntyre, N.R., "Thousand Aviators: 37 Years Later." Naval Aviation News, pp. 9-15, June 1978.
- MacIntyre, N.R., Mitchell, R.E., Oberman, A., Harlan, W.R., Graybiel, A., and Johnson, E., "Longevity in Military Pilots: 37-Year Follow-up of the Navy's '1000 Aviators'." Aviation, Space, & Environmental Medicine, Vol. 49, pp. 1120-1122, 1978.
- Nelson, T.D., Behavioral Effects of Microwave Irradiation on Squirrel Monkey ((Saimiri sciureus) Performance of a Repeated Acquisition Task, NAMRL-1245, Naval Acrospace Medical Research Laboratory, Pensacola, FL, March 1978. (AD A055 953)
- North, R.A., Harris, S.D., and Owens, J.M., Test-Retest Reliability of Individual Differences in Dual-task Performance, NAMRL-1248, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1978. (AD A060 082)
- Olsen, R.G., Recent Progress in Electromagnetic Absorption and Dosimetry in Biological Systems,
 NAMRL-1261, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1978.
 (AD A078 215)

- Owens, J.M. and Harris, S.D., On the Assessment of Processing Demands in Complex Task Structures, NAMRL-1249, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1978. (AD A060 317)
- Robertson, R.M., "Interpretation of Hearing Tests." In U.S. Naval Flight Surgeon's Manual, 2nd ed., U.S. Government Printing Office, Washington, DC, Chapter 8, pp. 67-84, 1978.
- Robertson, R.M., "Measurement of Hearing." U.S. Naval Flight Surgeon's Manual, 2nd ed., U.S. Government Printing Office, Washington, DC, Chapter 8, pp. 55-67, 1978.
- Robertson, R.M., Maxwell, D.W., and Williams, C.E., The Landing Signal Officer: Auditory Aspects, NAMRL-1255, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1978. (AD A065 000)
- Robertson, R.M., Page, J.C., and Williams, C.E., The Prevalence of Hearing Loss Among Selected Navy Enlisted Personnel, NAMRL-1251, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1978. (AD A062 832)
- Stafford, E.E., Moede, A.L., Brown, R.J., Purnomo, Galdikas-Brindamour, B., and Boerner, M., Enteric Parisites of Orangutans (Pongo pygmaeus) in Indonesia, NAMRL Special Report 78-9, Naval Aerospace Medical Research Laboratory, Pensacola, FL, October 1978. (AD A073 530)

- Baisden, A.G. and Doll, R.E., A Comparison of College Background, Pipeline Assessment, and Performance in Aviation Training for Black Student Naval Aviators and White Student Naval Aviators, NAMRL Special Report 80-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1979. (AD A082 201)
- Brictson, C.A. and Ciavarelli, A.P., "Aircrew Performance Research Opportunities Using the Air Combat Maneuvering Range (ACMR)." In Advisory Group for Aerospace Research and Development Conference Proceedings No. 246, pp. 111-113, 1979.
- Ciavarelli, A.P., Brictson, C.A., and Young, P.A., Development and Application of Performance Criteria and Aircrew Assessment Methods for the Air Combat Maneuvering Range (ACMR), Confidential Report, NAMRL Special Report 79-5, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1979.
- de Lorge, J.O., "Disruption of Behavior in Mammals of Three Different Sizes Exposed to Microwaves:

 Extrapolation to Larger Animals." In S.S. Stuchly (Ed.), Proceedings of the 1978 Symposium on

 Electromagnetic Fields in Biological Systems, International Microwave Power Institute, Edmonton,
 Alberta, 1979, pp. 215-228.
- de Lorge, J.O., "Effects of Magnetic Fields on Behavior in Nonhuman Primates." In T.S. Tenforde (Ed.), Magnetic Field Effects on Biological Systems, Plenum Press, New York, 1979, pp. 37-38.
- de Lorge, J.O., "Operant Behavior and Colonic Temperature of Squirrel Monkeys During Microwave Irradiation." *Radio Science*, Vol. 14, No. 6S, pp. 217-226, 1979.
- de Lorge, J.O. and Ezell, C.S., An Experimental Analysis of an Observing Response in Rats Exposed to 1.28 and 5.62 GHz Microwave Irradiation, NAMRL-1264, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1979. (AD A080 28)
- Doll, R.E. and Baisden, A.G., A Comparison of Black Civilian Procured Applicants and White Civilian Procured Applicants for Naval Aviation Training CY 1976-1978, NAMRL Special Report 79-3, Naval Aerospace Medical Research Laboratory, Pensacola, FL, May 1979.
- Ewing, C.L., Thomas, D.J., Lestick, L., Muzzy, W., Willems, G.C., and Majewski, P.L., "Effect of Initial Position on the Human Head and Neck Response to +Y Impact Acceleration." Proceedings of the 22nd Stapp Carr Crash Conference Transactions, pp. 3151-3165, 1979.
- Frank, L.H., Comparison of Specifications for Head-up Displays in the Navy A-4M, A-7E, AV-8A, and F-14A Aircraft, NAMRL Special Report 79-6, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1979. (AD A080 047)
- Frisch, G.D., A Human Body and Crew Station Modeling System for Motion Sickness." In Advisory Group for Aerospace Research and Development Conference Proceedings No. 253, 21, pp. 1-13, 1979.
- Goodson, J.D., "Dynamics of an Image Viewed through a Rotating Mirror." Journal of the Optical Society of America, Vol. 69, pp. 771-775, 1979.

- Graybiel, A., "Motion Sickness Susceptibility During Rotation at 30 rpm With Head Fixed and Heave vioving in the Free-fall Phases of Parabolic Flight." Acta Astronautica, Vol. 6, pp. 1481-1487.
- Graybiel, A., "Prevention and Treatment of Space Sickness in Shuttle-Orbiter Missions." Aviation Space & Environmental Medicine, Vol. 50, pp. 171-176, 1979.
- Graybiel, A., Johnson, W.H., Money, D.E., Malcolm, R.E., and Jennings, G.L., "Oculogravic Illusion Response to Straight-ahead Acceleration of CF-104 Aircraft." Aviation Space & Environmental Medicine, Vol. 50, pp. 382-386, 1979.
- Graybiel, A. and Lackner, J.R., "Rotation at 30 rpm About the Z-axis After 6 Hours in the 10° Head-down Position: Effect of Susceptibility to Motion Sickness." Aviation Space & Environmental Medicine, Vol. 50, pp. 390-392, 1979.
- Grissett, J.D., "Enhanced Growth In Pubescent Male Primates Chronically Exposed to Extremely Low Frequency Fields." In R.D. Phillips et al. (Eds.), Proceedings of the 1978 Eighteenth Annual Hanford Life Symposium on Biological Effects of Extremely Low Frequency Electromagnetic Fields, Richland, WA, 1979, pp. 349-362.
- Guedry, F.E., "Selection and Prediction Tests: Space Sickness." Space Motion Sickness Symposium Proceedings, Houston, TX, Johnson Space Center, Final Report, 1979.
- Guedry, F.E., Davenport, K.S., Brewton, C.B., and Turnipseed, G.T., The Pendular Eye Tracking Test Under Two Background Viewing Conditions, NAMRL 1257, Naval Aerospace Medical Research Laboratory, Pensacola, FL, January 1979. (AD A066 559)
- Guedry, F.E., Lentz, J.M., and Jell, R.M., "Visual-vestibular Interactions: I. Influence of Peripheral Vision on Suppression of the Vestibulo-ocular Reflex and Visual Acuity." Aviation, Space, & Environmental Medicine, Vol. 50, pp. 205-212, 1979.
- Harris, S.D., Owens, J.M., and North, R.A., Human Performance in Time-shared Verbal and Tracking Tasks, NAMRL-1259, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1979. (AD A070 275)
- Hixson, W.C., Guedry, F.E., Holtzman, G.L., Lentz, J.M., and O'Connell, P.F., Airsickness During Naval Flight Officer Training: Basic Squadron VT-10, NAMRL-1258, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1979. (AD A079 948)
- Hixson, W.C. and Mosko, J.D., Normative Bilateral Brainstem Evoked Response Data for a Naval Aviation Student Population: Group Statistics, NAMRL-1262, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1979. (AD A079 948)
- Hopson, J.A., Documentation and User's Manual for the Visual Detection Simulator (VDS), NAMRL Special Report 79-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, Sense of Originatation." April 1979. (AD A070 487)
- Lackner, J.R. and Graybiel, A., "Parabolic Flight: Loss of Sense of Orientation." Science, Vol. 206, pp. 1105-1108, 1979.

- Lackner, J.R. and Graybiel, A., "Some Influences of Vision on Susceptibility to Motion Sickness." Aviation Space & Environmental Medicine, Vol. 50, pp. 1122-1125, 1979.
- Lotz, W.G., "Endocrine Function in Rhesus Monkeys Fxposed to Pulsed Microwave Radiation." In S.S. Stuchly (Ed.), Proceedings of the 1978 Symposium on Electromagnetic Fields in Biological Systems, International Microwave Power Institute, Edmonton, Alberta, 1979, pp. 32-52.
- Lotz, W.G. and Michaelson, S.M., "Effects of Hypophysectomy and Dexamethasone on the Rat Adrenal Response to Microwave." *Journal of Applied Physiology*, Vol. 47, pp. 1284-1288, 1979.
- Lotz, W.G. and O'Neill, T.P., Implantation and Maintenance of Chronic Jugular Venous Catheters in Rhesus Monkeys (Macaca mulatta), NAMRL-1265, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1979. (AD A082 233)
- MacIntyre, N.R., Oberman, A., Harlan, W., Mitchell, R.E., and Graybiel, A., The Thousand Aviator Study:

 1969-1971 Follow-up Program With Distributions and Intercorrelations of Selected Variables, NAMRL

 Monograph 24, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1979.

 (AD A079 700)
- Majewski, P.L., Borgman, T.J., Thomas, D.J., and Ewing, C.L., "Transient Intraventricular Conduction Defects Observed During Experimental Impact in Human Subjects." In Advisory Group for Aerospace Research and Development Conference Proceedings No. 253, A-5, pp. 1-27, 1979.
- Moroney, W.r., Pruitt, R., and Lau, C., "Utilization of Energy Maneuverability Data in Improving In-flight Performance in Air Combat Maneuvering." Proceedings of the Human Factors Society 23rd Annual Meeting, 1979, pp. 503-507.
- Olsen, R.G., "Preliminary Studies: Far-field Microwave Dosimetric Measurements of a Full-scale Model of Man." Journal of Microwave Power, Vol. 14, pp. 383-388, 1979.
- Olsen, R.G. and Hammer, W.C., "Thermographic Comparison of Temperature Probes Used in Microwave Dosimetry Studies." In S.S. Stuchly (Ed.), Proceedings of the 1978 Symposium on Electromagnetic Fields in Biological Systems, International Microwave Power Institute, Edmonton, Alberta, 1979, pp. 243-270.
- Olsen, R.G. and Molina, E.A., "The Nonmetallic Thermocouple: A Differential-temperature Probe for Use in Microwave Fields." Radio Science, Vol. 14, No. 6S, pp. 81-84, 1979.
- Pickard, W.F. and Olsen, R.G., "Developmental Effects of Microwaves on *Tenebrio*: Influences of Culturing Protocol and of Carrier Frequency." *Radio Science*, Vol. 14, No. 6S, pp. 181-186, 1979.
- Robertson, R.M., Greene, J.W., Maxwell, D.W., and Williams, C.E., Exploratory Assessment of Automated Hearing Test Systems, NAMRL-1263, Naval Aerospace Medical Research Laboratory, Pensacola, FL, October 1979. (AD A079 909)
- Robertson, R.M., Page, J.C., and Williams, C.E., "The Prevalence of Hearing Loss Among Selected Navy Enlisted Personnel." *Navy Medicine*, Vol. 70, No. 10, pp. 21-27, 1979.
- Shannon, R.H. and Alkov, R., "Human Factors in Aircraft Accidents." Approach, December 1979.

- Turnipseed, G.T., Jell, R.M., and Guedry, F.E., Evaluation of a Simple Device for Scoring Nystagmus, NAMRL-1260, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1979. (AD A074 545)
- Unterharnscheidt, F.J. and Ewing, C.L., "Potential Relationship Between Central Nervous System Injury and Impact Forces Based on Primate Studies." Advisory Group for Aerospace Research and Development Conference Proceedings No. 253, A18, pp. 1-8, 1979.
- Weiss, M.S. and Berger, M.D., "Impact Acceleration-related Changes in Brain Electrical Activity." In Advisory Group for Aerospace Research and Development Conference Proceedings No. 253, A20, pp. 1-9, 1979.
- Wiker, S.F., Kennedy, R.S., McCauley, M.E., and Pepper, R.L., "Reliability Validity and Application of an Improved Scale for Assessment of Motion Sickness Severity." U.S. Coast Guard Report No. CG-D-29-79, 1979.
- Wiker, S.F., Kennedy, R.S., McCauley, M.E., and Pepper, R.L., "Susceptibility to Seasickness: Influence of Hull Design and Steaming Direction." Aviation Space & Environmental Medicine, Vol. 50, pp. 1046-1051, 1979.

- Baisden, A.G., A Comparison of College Background, Pipeline Assignment, and Performance in Aviation
 Training for Black Student Naval Flight Officers and White Student Naval Flight Officers, NAMRL
 Special Report 80-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1980.
 (AD A091 113)
- Blower, D.J., The Bias in the Presentation of Stimuli When the Up-and-down Method is Used With Forced Choice Responding, NAMRL-1269, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1980. (AD A089 790)
- Bowman, J.R., Thorsen, G.Q., and Carrell, D.E., A Process Control System for Hewlett-Packard Series 21XX Computers, NAMRL Special Report 81-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1980. (AD A097 770)
- de Lorge, J.O., "The Effects of Microwaves on Animal Behavior." In A.J. Berteaud and B. Servantie (Eds.),

 Ondes Electromagnetiques et Biologie, Jouy en Josas, France, VRSI, CNFRS, 1980, pp. 171-176.
- de Lorge, J.O. and Ezell, C.S., "Observing-responses of Rats Exposed to 1.28- and 5.62-GHz Microwaves."

 Bioelectromagnetics, Vol. 1, pp. 183-198, 1980.
- Dixon, D.J., Copeland, M.G., and Halcomb, C.G., Psychomotor Battery Approaches to Performance Prediction and Evaluation in Hyperbaric Thermal and Vibratory Environments: Annotated Bibliographies and Integrative Review, NAMRL Monograph 26, Naval Aerospace Medical Research Laboratory, Pensacola, FL, January 1980.
- Goodson, J.E. and Morrison, T.R., Stimulus Determinants of Dynamic Visual Acuity. I. Background and Exploratory Data, NAMRL-1270, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1980. (AD A089 749)
- Graybiel, A., "Space Motion Sickness: Skylab Revisited." Aviation Space & Environmental Medicine, Vol. 51, pp. 814-822, 1980.
- Graybiel, A. and Lackner, J.R., "Evaluation of the Relationship Between Motion Sickness Symptomatology and Blood Pressure, Heart Rate, and Body Temperature." Aviation Space & Environmental Medicine, Vol. 51, pp. 211-214, 1980.
- Graybiel, A. and Lackner, J.R., "A Sudden-stop Vestibulovisual Test for Rapid Assessment of Motion Sickness Manifestations." Aviation Space & Environmental Medicine, Vol. 51, pp. 21-23, 1980.
- Grissett, J.D., "Biological Effects of Electric and Magnetic Fields Associated With ELF Communications Systems." *Proceedings of the IEEE*, Vol. 68, pp. 98-104, 1980.
- Guedry, F.E., "A Multistation Spatial Disorientation Demonstrator." In Spatial Disorientation in Flight: Current Problems, Advisory Group for Aerospace Research and Development Conference Proceedings No. 287, Technical Editing and Reproduction Ltd., London, 1980.
- Guedry, F.E., Jr., Lentz, J.M., Jell, R.M., and Norman, J.W., Visual-vestibular Interactions: II. The Directional Component of Visual Background Movement, NAMRL-1268, Naval Aerospace Medical Research Laboratory, Pensacola, FL, May 1980. (AD A089 789)

- Hixson, W.C., Guedry, F.F., Jr., Holtzman, G.L., Lentz, J.M., and O'Connell, P.F., Airsickness During Naval Flight Officer Tr.ining: Advanced Squadron VT86-AJN, NAMRL-1267, Naval Aerospac: Medical Research Laboratory, Pensacola, FL, June 1980. (AD A088 105)
- Hixson, W.C., Guedry, F.E., Jr., Holtzman, G.L., Lentz, J.M., and O'Connell, P.F., Airsickness During Naval Flight Officer Training: Advanced Squadron VT86-RIO, NAMRL-1272, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1980. (AD A092 963)
- Hopson, J.A. and Cotsonis, G.A., Statistical Package User's Guide, NAMRL Special Report 80-3, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1980. (AD A108 892)
- Jell, R.M., Guedry, F.E., Jr., and Hixson, W.C., The Vestibulo-ocular Reflex in Man During Voluntary Head Oscillation Under Three Visual Conditions, NAMRL-1271, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1980. (AD A090 978)
- Jell, R.M., Turnipseed, G.T., and Guedry, F.E., Jr., Digital Analysis of the Voluntary Head Movement-induced Vestibulo-ocular Reflex With Saccade Extraction, NAMRL-1273, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1980. (AD A097 680)
- Jones, M.B., Stabilization and Task Definition in a Performance Test Battery, NAMRL Monograph 27, Naval Aerospace Medical Research Laboratory, Pensacola, FL, January 1980.
- Lackner, J.R. and Graybiel, A., "Visual and Postural Motion Aftereffects Following Parabolic Flight."

 Aviation Space & Environmental Medicine. Vol. 51, pp. 230-233, 1980.
- Lu, S.T., Lotz, W.G., and Michaelson, S.M., "Advances in Microwave-induced Neuroendocrine Effects: The Concept of Stress." *Proceedings of the IEEE*, Vol. 68, pp. 73-77, 1980.
- Morrison, T.R., A Review of Dynamic Visual Acuity, NAMRL Monograph 28, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1980. (AD A085 860)
- Olsen, R.G., Griner, T.A., and Prettyman, G.D., "Far-field Microwave Dosimetry in a Rhesus Monkey Model." *Bioelectromagnetics*, Vol. 1, pp. 149-160, 1980.
- Olsen, R.G. and Hammer, W.C., "Microwave-induced Pressure Waves in a Model of Muscle Tissue." Bioelectromagnetics, Vol. 1, pp. 45-54, 1980.
- Petho, F.C., "Naval Undergraduate Jet Flight Training System: New Directions." Proceedings of the American Institute of Aeronautics and Astronautics Training and Technology Conference, Washington, DC, 18-19 August 1980.
- Petho, F.C., Collyer, P., and Turner, D., "VTX-TX Issues Survey." Chief of Naval Air Training Undergraduate Pilot Training Task Analysis and VTX Issues Survey, Vol. 1, April 1980.
- Pruitt, V.R., Moroney, W.F., and Lau, C., Energy Maneuverability Display for the Air Combat Maneuvering Range/Tactical Training System (ACMR/TACTS), NAMRL Special Report 80-4, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1980. (AD A092 974)
- Thomas, G.B., Maxwell, D.M., Mosko, J.D., and Williams, C.E., An Evaluation of the Speech Intelligibility and Noise Attenuation Characteristics of a New Protective Flight Deck Communications Helmet,

1980

- Thomas, G.B., Williams, C.E., and Hoger, N.G., The Relationship Between Selected Non-auditory Measures and the Hearing Threshold Levels of an Aviation Noise-exposed Population, NAMRL-1266, Naval Aerospace Medical Research Laboratory, Pensacola, FL, February 1980. (AD A084 110)
- Wickens, C., Mountford, S.J., and Schreiner, W., Task-dependent Differences and Individual Differences in Dual-task Performance, NAMRL Monograph 25, Naval Aerospace Medical Research Laboratory, Pensacola, FL, January 1980.

- Barnes, G.R., A Procedure for the Analysis of Nystagmus and Other Eye Movements, NAMRL-1280, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1981. (AD A112 603)
- Blower, D.J., Determining Visual Acuity Thresholds: A Simulation Study of Stimulus Presentation Strategies, NAMRL-1282, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1981. (AD A111 821)
- Goodson, J.E. and Morrison, T.R., Stimulus Determinants of Dynamic Visual Acuity. II. Effects of Limiting the Turget Surround, NAMRL-1274, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1981. (AD A108 897)
- Goodson, J.E. and Morrison, T.R., Stimulus Determinants of Dynamic Visual Acuity. III. Effects of Proximal Borders and Limited Surround, NAMRL-1276, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1981. (AD A108 898)
- Graybiel, A., Cramer, D.B., and Wood, C.D., "Experimental Motion Sickness: Efficacy of Transdermal Scopolamine Plus Ephedrine." Aviation Space & Environmental Medicine, Vol. 52, pp. 337-339, 1981.
- Graybiel, A., O'Donnell, R.D., Flurr, E., Nagaba, M., and Smith, M.J., "Mechanisms Underlying Modulations of Thermal Nystagmic Responses in Parabolic Flight." *Acta Oto-Laryngologica* (Supplement 378), Vol. 92, pp. 1-16, 1981.
- Guedry, F.E., Jr. and Benson, A.J., Modification of Per- and Postrotational Responses by Voluntary Motor Activity of the Limbs, NAMRL-1277, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1981. (AD A106 163)
- Guedry, F.E., Jr., Lentz, J.M., Jell, R.M., and Norman, J.W., "Visual-vestibular Interactions: II. The Directional Component of Visual Background Movement." Aviation Space & Environmental Medicine, Vol. 52, pp. 304-309, 1981.
- Hittner, H.M., Godio, L.B., Rudolph, A.J., Adams, J.M., Garcia-Prats, J.A., Friedman, Z., Kautz, J.A., and Monaco, W.A., "Retrolental Fibroplasia: Efficacy of Vitamin E in a Double-blind Clinical Study of Preterm Infants." New England Journal of Medicine, Vol. 305, No. 23, pp. 1365-1371, 1981.
- Hixson, W.C., Guedry, F.E., Jr., Holtzman, G.L., Lentz, J.M., and O'Connell, P.F., Airsickness During Naval Flight Officer Training: Basic Squadron VT-10 (New Syllabus), NAMRL-1275, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1981. (AD A103 121)
- Hixson, W.C., Guedry, F.E., Jr., Lentz, J.M., and Holtzman, G.L., Airsickness During Naval Flight Officer Training: Advanced Squadron VT86-A'N (New Syllabus), NAMRL-1279, Naval Aerospace Research Laboratory, Pensacola, FL, June 1981. (AD A106 377)
- Hixson, W.C., Guedry, F.E., Jr., Lentz, J.M., and Holtzman, G.L., Airsickness During Naval Flight Officer Training: Advanced Squadron VT86-RIO (New Syllabus), NAMRL-1281, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1981. (AD A114 685)

- Kupper, J.L., Kessler, M.J., Clayton, J.D., and Brown, R.J., "Establishment of Normal Electrocardiographic Values for a Colony of Rhesus Monkeys (*Macaca mulatta*) Under Sedated and Unsedated Conditions." *Journal of Medical Primatology*, Vol. 10, No. 6, pp. 329-335, 1981.
- Lackner, J.R. and Graybiel, A., "Variations in Gravitoinertial Force Level Affect the Gain of the Vestibulo-ocular Reflex: Implications for the Etiology of Space Motion Sickness." Aviation Space & Environmental Medicine, Vol. 52, pp. 154-158, 1981.
- Lentz, J.M. and Guedry, F.E., Jr., Apparent Instrument Horizon Deflection During and Immediately Following Rolling Maneuvers, NAMRL-1278, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1981. (AD A106 162)
- Lentz, J.M., Pollack, J.G., and Guedry, F.E., Jr., Changes in the Vestibular System With Age: An Abstracted Bibliography, NAMRL Monograph 29, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1981. (AD A102 913)
- Lilienthal, M.G. and Pettyjohn, F.S., Multiplex Controller Aptitude Test and Occupational Knowledge Test:

 Selection Tools for Air Traffic Controllers, NAMRL Special Report 82-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1981. (AD A118 803)
- MacIntyre, N.R., Kunkler, J.R., Mitchell, R.E., Oberman, A., and Graybiel, A., "Eight-year Follow-up of Exercise Electrocardiograms in Healthy, Middle-aged Aviators." Aviation Space & Environmental Medicine, Vol. 52, pp. 256-259, 1981.
- MacIntyre, N.R., Mitchell, R.E., Oberman, A., Harland, W.R., Graybiel, A., "Long-term Follow-up of Lung Volume Measurements in Initially Healthy Young Aviators." Aviation Space & Environmental Medicine, Vol. 52, pp. 1-5, 1981.
- Mosko, J.D., "'Clear Speech'": A Stratagem for Improving Radio Communications and Automatic Speech Recognition in Noise." In D.K. Money (Ed.), Aural Communication in Aviation, Advisory Group for Aerospace Research and Development Conference Proceedings No. 311, Technical Editing and Reproduction Ltd., London, 1981, pp. 4-1 to 4-6.
- Mosko, J.D., Remington, R.W., and Griffin, G.R., "Phonological Variants in Medial Stop Consonants Under Simulated Operational Environments: Implications for Voice Activated Controls in Aircraft." In D.K. Money (Ed.), Aural Communication in Aviation, Advisory Group for Aerospace Research and Development Conference Proceedings No. 311, Technical Editing and Reproduction Ltd., London, 1981, pp. 3-1 to 3-4.
- Olsen, R.G., "Distribution of Absorbed Energy in Primate Models." In J.C. Mitchell (Ed.), Aeromedical Review: Proceedings of a Workshop on the Protection of Personnel Against Radiofrequency Electromagnetic Radiation, Research Study Group 2, Panel VIII Defense Research Group, NATO, Review 3-81, USAF School of Aerospace Medicine, Aerospace Medical Division (AFSC), Brooks Air Force Base, TX, 1981, pp. 149-154. (AD A107 357)
- Olsen, R.G., Microwave-induced Developmental Defects in the Common Mealworm (Tenebrio molitor)—A

 Decade of Research, NAMRL-1283, Naval Aerospace Medical Research Laboratory, Pensacola, FL,
 December 1981. (AD A118 821)

- Olsen, R.G. and Lin, J.C., "Microwave Pulse-induced Acoustic Resonances in Spherical Head Models." *IEEE Transactions on Microwave Theory and Techniques*, Vol. MTT-29, pp. 1114-1117, 1981.
- Thomas, G.B., Williams, C.E., and Hoger, N.W., "Some Non-auditory Correlates of the Hearing Threshold Levels of an Aviation Noise-exposed Population." Aviation Space & Environmental Medicine, Vol. 52, pp. 531-536, 1981.
- Williams, C.E. and Stevens, K.N., "Vocal Correlates of Emotional States." In J. Darby (Ed.), Speech Evaluation in Psychiatry, Grune and Stratton, New York, 1980, pp. 221-240.

- Barnes, G.R., Turnipseed, G.R., and Guedry, F.E., Jr., The Effects of Character Stroke Width on the Visibility of a Head-coupled Display, NAMRL-1297, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1982. (AD A132 046)
- de Lorge, J.O., The Effects of Microwaves on Animal Operant Behavior, NAMRL-1285, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1982. (AD A127 436)
- de Lorge, J.O., The Thermal Basis for Disruption of Operant Behavior by Microwaves in Three Animal Species, NAMRL-1286, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1982. (AD A127 370)
- Graybiel, A., Cramer, D.B., and Wood, C.D., "Antimotion Sickness Efficacy of Scopolamine 12 and 72 Hours After Transdermal Administration." Aviation Space & Environmental Medicine, Vol. 53, pp. 770-772, 1982.
- Griffin, G.R. and Mosko, J.D., Preliminary Evaluation of Two Dichotic Listening Tasks as Predictors of Performance in Naval Aviation Undergraduate Pilot Training, NAMRL-1287, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1982. (AD A127 337)
- Guedry, F.E., Jr., Benson, A.J., and Moore, H.J., "Influence of a Visual Display and Frequency of Whole-body Oscillation on Incidence of Motion Sickness." Aviation Space & Environmental Medicine, Vol. 53, No. 6, pp. 564-569, 1982.
- Guignard, J.C. and McCauley, M.E., "Motion Sickness Incidence Induced by Complex Periodic Waveforms."

 Aviation Space & Environmental Medicine, Vol. 53, No. 6, pp. 554-563, 1982.
- Jell, R.M., Guedry, F.E., Jr., and Hixson, W.C., "The Vestibulo-ocular Reflex in Man During Voluntary Head Oscillation Under Three Visual Conditions." Aviation Space & Environmental Medicine, Vol. 53, No. 6, pp. 541-548, 1982.
- Jell, R.M., Stockwell, C.W., Turnipseed, G.T., and Guedry, F.E., Jr., Vestibulo-ocular Reflex Gain in Man During Active Versus Passive Oscillation and the Influence of Voluntary Gaze-control Tasks, NAMRL-1290, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1982. (AD A132 006)
- Lackner, J.R. and Graybiel, A., "Rapid Perceptual Adaptation to High Gravitoinertial Force Levels:

 Evidence for Context-specific Adaptation." Aviation Space & Environmental Medicine, Vol. 53, pp. 766-769, 1982.
- Lentz, J.M., Two Experiments on Laboratory-induced Motion Sickness: I. Acupressure; II. Repeated Exposure, NAMRL-1288, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1982. (AD A127 327)
- Lentz, J.M. and Guedry, F.E., Jr., "Apparent Instrument Horizon Deflection During and Immediately F 'lowing Rolling Maneuvers." Aviation Space & Environmental Medicine, Vol. 53, No. 6, pp. 549-553, 1982.

- Lotz, W.G., Hyperthermia in Rhesus Monkeys Exposed to a Frequency (225 MHz) Near Whole-body Resonance, NAMRL-1284, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1982. (AD A118 364)
- Lotz, W.G. and Podgorski, R.P., "Temperature and Adrenocortical Responses in Rhesus Monkeys Exposed to Microwaves." *Journal of Applied Physiology: Respiratory, Environmental Exercise Physiology*, Vol. 53, 'No. 6, pp. 1565-1571, 1982.
- Monaco, W.A., Ultrastructural Evaluation of the Retina in Retinopathy of Prematurity and Correlations With Vitamin E Therapy, NAMRL-1294, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1982. (AD A135 929)
- Olsen, R.G., "Constant-dose Microwave Irradiation of Insect Pupae." Radio Science, Vol. 17, No. 5S, pp. 145S-148S, 1982.
- Olsen, R.G., "Far-field Dosimetric Measurements in a Full-size Man Model at 2.0 GHz." Bioelectromagnetics, Vol. 3, pp. 432-441, 1982.
- Olsen, R.G., "Generation of Acoustical Images From the Absorption of Pulsed Microwave Energy." In J. Powers (Ed.), Acoustical Imaging, Volume II, Plenum Press, New York, 1982, pp. 53-59.
- Olsen, R.G. and Griner, T.A., "Electromagnetic Dosimetry in a Sitting Rhesus Model at 225 MHz."

 Bioelectromagnetics, Vol. 3, pp. 385-389, 1982.
- Olsen, R.G. and Griner, T.A., "Partial-body Absorption Resonances in a Sitting Rhesus Model at 1.29 GHz."

 Radiation and Environmental Biophysics, Vol. 21, pp. 33-43, 1982.
- Olsen, R.G. and Hammer, W.C., "Thermographic Analysis of Waveguide-irradiated Inspect Pupae." Radio Science, Vol. 17, No. 5S, pp. 95S-104S, 1982.
- Olsen, R.G., Hammer, W.C., and Taylor, J.C., "Coaxial Nonmetallic Thermocouple With Electronic Ice Point for Dosimetric Use in Electromagnetic Dosimetry." *Journal of Microwave Power*, Vol. 17, pp. 137-143, 1982.
- Robertson, R.M., Maxwell, D.W., and Williams, C.E., "The Landing Signal Officer: Auditory Aspects."

 Aviation Space & Environmental Medicine, Vol. 53, No. 7, pp. 670-675, 1982.

- Anderson, L.M., Mulligan, B.E., and Goodman, L.S., "Effects of Sounds on Preferences for Outdoor Settings." *Environment and Behavior*, Vol. 15, No. 5, pp. 539-566, September 1983.
- Baisden, A.G. and Monaco, W.A., Distribution of Visual Characteristics of Naval Aviation Personnel, NAMRL-1301, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1983. (AD A130 930)
- David, T.D., Harris, G.A., and Bley, J.A., Jr., Eruption of Permanent Dentition in Rhesus Monkeys Exposed to ELF Fields, NAMRL-1295, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1983. (AD A132 065)
- de Lorge, J.O., "Disruption of Behavior in Mammals of Three Different Sizes Exposed to Microwaves:

 Extrapolation to Larger Animals." In J.M. Osepchuk (Ed.), Biological Effects of Electromagnetic Radiation, IEEE Press, New York, 1983, pp. 269-282.
- de Lorge, J.O., Operant Behavior and Colonic Temperature of Rhesus Monkeys, Macaca mulatta, Exposed to Microwaves at Frequencies Above and Near Whole-body Resonance, NAMRL-1289, Naval Aerospace Medical Research Laboratory, Pensacola, FL, January 1983. (AD A127 326)
- de Lorge, J.O., "The Thermal Basis for Disruption of Operant Behavior by Microwaves in Three Animal Species." In E.R. Adair (Ed.), *Microwaves and Thermoregulation*, Academic Press, New York, 1983, pp. 379-399.
- Eyraud, M.Y., Bagrash, F.M., and Stoffer, G.R., Figural Aftereffects: An Explanation in Terms of Multiple Mechanisms in the Human Visual System, NAMRL Monograph 30, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1983. (AD A132 066)
- Graybiel, A. and Lackner, J.R., "Motion Sickness: Acquisition and Retention of Adaptation Effects
 Compared in Three Motion Environments." Aviation Space & Environmental Medicine, Vol. 54, No. 4, pp. 307-311, 1983.
- Griner, T., Knepton, J., and de Lorge, J.O., The Use of a Small Digital Computer for On-line Behavioral Experiments, NAMRL-1304, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1983. (AD A138 975)
- Guedry, F.E., Jr. and Benson, A.J., "Modification of Per- and Postrotational Responses by Voluntary Motor Activity of the Limbs." Experimental Brain Research, Vol. 52, pp. 190-198, 1983.
- Hixson, W.C., Guedry, F.E., Jr., Lentz, J.M., and Holtzman, G.L., Airsickness During Naval Flight Officer Training: Fleet Readiness Squadrons, NAMRL-1305, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1983. (AD A138 973)
- Knepton, J. and de Lorge, J.O., Effect of Pulsed 5.62-GHz Microwaves on Squirrel Monkeys (Saimiri sciureus)

 Performing a Repeated Acquisition Task, NAMRL-1291, Naval Aerospace Medical Research

 Laboratory, Pensacola, FL, January 1983. (AD A132 045)

- Knepton, J., de Lorge, J.O., and Griner, T., Effects of Pulsed Microwaves at 1.28 and 5.62 GHz on Rhesus Monkeys (Macaca mulatta) Performing an Exercise Task at Three Levels of Work, NAMRL-1293, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1983. (AD A132 057)
- Knepton, J., Ezell, C., and de Lorge, J.O., A Restraint Chair With Rowing-like Movement for Exposing

 Exercising Nonhuman Primates to Microwave Irradiation, NAMRL-1298, Naval Aerospace Medical
 Research Laboratory, Pensacola, FL, April 1983. (AD A132 047)
- Lentz, J.M., Changes in the Vestibular System With Age: An Abstracted Bibliography (Volume II), NAMRL Monograph 29A, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1983. (AD A135 939)
- Lotz, W.G., "Influence of the Circadian Rhythm of Body Temperature on the Physiological Response to Microwaves: Day vs. Night Exposure." In E.R. Adair (Ed.), Microwaves and Thermoregulation, Academic Press, New York, 1983, pp. 445-460.
- Morris, A. and Goodson, J.E., The Development of a Precision Series of Landolt Ring Acuity Slides, NAMRL-1303, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1983. (AD A138 974)
- Mosko, J.D., Stevens, K.N., and Griffin, G.R., Interactive Voice Technology: Variations in the Vocal Utterances of Speakers Performing a Stress-inducing Task, NAMRL-1300, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1983. (AD A135 932)
- Olsen, R.G., de Lorge, J.O., and Lotz, W.G., Realistic Monkey Models Made From Surgical Gloves for Radio-frequency (RF) and Microwave Dosimetric Measurements, NAMRL-1302, Naval Acrospace Medical Research Laboratory, August 1983. (AD A135 931)
- Olsen, R.G. and Lin, J.C., "Acoustical Imaging of a Model of a Human Hand Using Pulsed Microwave Irradiation." *Bioelectromagnetics*, Vol. 4, pp. 397-400, 1983.
- Olsen, R.G. and Lin, J.C., "Microwave-induced Pressure Waves in Mammalian Brains." *IEEE Transactions on Biomedical Engineering*, Vol. BME-30, No. 5, pp. 289-294, 1983.
- Pollack, J.G. and Diamond, C., An Age Comparison of the Vestibulo-ocular Counterroll Reflex, NAMRL-1292, Naval Aerospace Medical Research Laboratory, Pensacola, FL, February 1983. (AD A132 064)
- Stern, S., Laties, V.G., Stancampiano, C.V., Cox, C., and de Lorge, J.O., "Behavioral Detection of 60-Hz Electric Fields by Rats." *Bioelectromagnetics*, Vol. 4, pp. 215-247, 1983.
- Thomas, G.B. and Clipper, R.W., Performance Consistency on a Perceptual-motor Task as a Correlate of Achievement Motivation, NAMRL-1299, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1983. (AD A135 933)

- Bellenkes, A.H., Dual-task Timesharing Using a Projected Attitude Displuy (Malcolm Horizon), NAMRL-1310, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1984. (AD A150 789)
- de Lorge, J.O., "Operant Behavior and Colonic Temperature of *Macaca Mulatta* Exposed to Radio Frequency Fields at and Above Resonant Frequencies." *Bioelectromagnetics*, Vol. 5, pp. 233-246, 1984.
- de Lorge, J.O., "The Assessment of Nonionizing Radiation Hazards." In G.E. Leer and T.E. Ulrich (Eds.), Proceedings of the 9th Symposium Psychology in the Department of Defense, USAFA-TR-84-2, U.S. Air Force Academy, Colorado Springs, CO, pp. 295-299, 1984.
- Eyraud, M.Y., Owens, J.M., and Goodman, L.S., Technical Evaluation of the Naval Automated Pilot Aptitude Measurement System (NAPAMS), NAMRL Special Report 85-3, Naval Acrospace Medical Research Laboratory, Pensacola, FL, December 1984. (AD A152 361)
- Goodman, L.S., Developmental Factors and Field Dependence-Independence, NAMRL-1311, Naval Acrospace Medical Research Laboratory, Pensacola, FL, November 1984. (AD A152 337)
- Griner, T.A. and Olsen, R.G., Specific Absorption Rate in a Sitting Rhesus Model at 225, 1290, and 5950 MHz for E, H, and K Polarizations, NAMRL-1308, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1984. (AD A145 435)
- Guedry, F.E., Jr., "Sensory Conflict Theory." In M.E. McCauley (Ed.), Research Issues in Simulator Sickness: Proceedings of a Workshop, National Academy Press, Washington, DC, October 1984, pp. 25-33.
- Guedry, F.E., Jr., "Vestibular Responses and Motion Sickness Under Changing Acceleration Environments."

 Sensory-motor Functions Under Weightlessness and Space Motion Sickness, Proceedings of the International Symposium on Space Medicine, Nagoya, Japan, 1984.
- Harris, S.D. and Owens. J.O., Some Critical Factors That Limit the Effectiveness of Machine Intelligence Technology in Military Systems Applications, NAMRL Special Report 84-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1984. (AD A150 684)
- Hixson, W.C., Guedry, F.E., Jr., and Lentz, J.M., "Results of a Longitudinal Study of Airsickness Incidence During Naval Flight Officer Training." In Advisory Group for Aerospace Research and Development Conference Proceedings No. 372, pp. 30-1 to 30-13, 1984.
- Hixson, W.C., Guedry, F.E., Jr., and Lentz, J.M., Results of a Longitudinal Study of Airsickness During Naval Flight Officer Training: Executive Summary, NAMRL Special Report 85-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1984. (AD A150 887)
- Lentz, J.M., "Laboratory Tests of Motion Sickness Susceptibility." In Advisory Group for Aerospace Research and Development Conference Proceedings No. 372, pp. 29-1 to 29-9, 1984.
- McBride, D.K., The Levels of Processing Conceptualization of Human Memory: Some Empirical and Theoretical Issues, NAMRL Monograph 31, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1984. (AD A.152 321)

- Monaco, W.A. and Knowlton, C.G., Dark Focus: Intersubject Variations, Intrasubject Stability, and Relationship to Near Retinoscopy, NAMRL-1307, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1984. (AD A145 489)
- Mulligan, B.E., McBride, D.K., and Goodman, L.S., A Design Guide for Nonspeech Auditory Displays, NAMRL Special Report 84-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1984. (AD A152 322)
- Olsen, R.G., "Microwave Pulse-induced Hydrophone Response From the Brains of Living Rhesus Monkeys." Innovation et Technologie en Biologie et Medicine, Vol. 5, pp. 665-674, 1984.
- Olsen, R.G. and David, T.D., "Hypothermia and Electromagnetic Rewarming in the Rhesus Monkey."

 Aviation Space & Environmental Medicine, Vol. 55, No. 12, pp. 1111-1117, 1984.
- Olsen, R.G., de Lorge, J.O., Forstall, J.R., and Ezell, C.S., "A Circular Waveguide Irradiation System for Nonhuman Primates." *Bioelectromagnetics*, Vol. 5, pp. 79-88, 1984.
- Owens, J.M., Goodman, L.S., and Pianka, M.J., Interference Effects of Vocalization on Dual-task Performance, NAMRL-1309, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1984. (AD A150 687)
- Percival, L.C. and Guedry, F.E., Jr., Development and Evaluation of a Performance-based Test of Saccadic and Vestibulo-ocular Control, NAMRL-1306, Naval Aerospace Medical Research Laboratory, Pensacola, FL, January 1984. (AD A145 367)
- Proceedings of the Tri-service Aeromedical Research Panel Fall Technical Meeting, NAMRL Monograph 33, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1984. (AD A168 336)
- Robertson, R.M. and Williams, C.E., Development of a Navy Hearing Conservation Management Information System (HECMIS), NAMRL Special Report 85-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1984. (AD A152 518)

- Banta, G.R. and Grissett, J.D., "Relationship of Cardiopulmonary Fitness to Flight Performance in Tactical Aviation." In Advisory Group for Aerospace Research and Development Conference Proceedings No. 396, pp. 44-1 to 44-10, December 1985.
- D'Andrea, J.A., "Microwave Radiation Effects on Locomotor Behavior in the Rat." In J.C. Monahan and J.A. D'Andrea (Eds.), *Behavioral Effects of Microwave Radiation Absorption*, HHS Publication FDA 85-8238, August 1985, pp. 76-83.
- D'Andrea, J.A., Emmerson, R.V., Bailey, C.M., Olsen, R.G., and Gandhi, O.P., "Microwave Radiation Absorption in the Rat: Frequency-dependent SAR Distribution in Body and Tail."

 Bioelectromagnetics, Vol. 6, pp. 199-206, 1985.
- de Lorge, J.O., "Behavioral Studies of Monkeys in Electric and Magnetic Fields at ELF Frequencies." In M. Grandolfo, S.M. Michaelson, and A. Rindi (Eds.), Biological Effects and Dosimetry of Static and ELF Electromagnetic Fields, Plenum Press, New York, 1985, pp. 433-439.
- de Lorge, J.O., "Effects of DC Magnetic Fields on Behavior." In M. Grandolfo, S.M. Michaelson, and A. Rindi (Eds.), Biological Effects and Dosimetry of Static and ELF Electromagnetic Fields, Plenum Press, New York, 1985, pp. 129-139.
- de Lorge, J.O., "Effects of Microwaves on Scheduled-controlled Behavior." In J. Monahan and J.A.

 D'Andrea (Eds.), Behavioral Effects of Microwave Radiation Absorption, HHS Publication FDA
 85-8238, August 1985, pp. 22-35.
- Griffin, G.R. and Mosko, J.D., A Comparison of Dichotic Listening Task Scoring Methods, NAMRL Special Report 85-4, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1985. (AD A159 920)
- Griffin, G.R. and Mosko, J.D., The Effects of Vocal Versus Manual Response Modalities on Multi-task Performance, NAMRL-1312, Naval Aerospace Medical Research Laboratory, Pensacola, FL, February 1985. (AD A159 830)
- Grissett, J.D. and Lotz, W.G., "Physiological Studies of Monkeys in Electric and Magnetic Fields at ELF Frequencies." In M. Grandolfo, S.M. Michaelson, and A. Rindi (Eds.), Biological Effects and Dosimetry of Static and ELF Electromagnetic Fields, Plenum Press, New York, NY, 1985, pp. 409-431.
- Guedry, F.E., Jr., "Vestibular Responses and Motion Sickness Under Changing Acceleration Environments."

 Sensory-motor Functions Under Weightlessness and Space Motion Sickness, Proceedings of the
 International Symposium on Space Medicine, Nagoya, Japan, 1984, pp. 117-126.
- Houghton, J.O., McBride, D.K., and Hannah, K., "Performance and Physiological Effects of Acceleration-induced (+Gz) Loss of Consciousness." Aviation Space & Environmental Medicine, Vol. 56, No. 10, pp. 956-965, 1985.
- Lotz, W.G., "Hyperthermia in Radiofrequency Exposed Rhesus Monkeys: A Comparison of Frequency and Orientation Effects." Radiation Research, Vol. 102, pp. 59-70, 1985.

- McBride, D.K., Goodman, L.S., and Owens, J.M., Simple and Choice Reaction Time in a Secondary Task Under Varied Stimulus Modality Probabilities, NAMRL-1313, Naval Aerospace Medical Research Laboratory, Pensacola, FL, February 1985. (AD A159 698)
- McBride, D.K., Houghton, J.O., and Hannah, K., "Recovery From +Gz-induced Loss of Consciousness (LOC)." Society of U.S. Naval Flight Surgeons Newsletter, Vol. IX, No. 3, July 1985.
- Monaco, W.A. and Hamilton, P.V., "Visual Capabilities Related to Fighter Aircrew Performance in the F-14 and Adversary Aircraft." In Advisory Group for Aerospace Research and Development Conference Proceedings No. 396, pp. 38-1 to 38-9, December 1985.
- Monaco, W.A., Morris, A., and Hamilton, P.V., Development of Vision Tests for Air-to-air Target Detection, NAMRL-1314, Naval Acrospace Medical Research Laboratory, Pensacola, FL, August 1985. (AD A168 309)
- Monahan, J.C. and D'Andrea, J.A. (Eds.), Behavioral Effects of Microwave Radiation Absorption, HHS Publication FDA 85-8238, 159 pp., August 1985.
- Morris, A., Hamilton, P.V., Morey, W.A., and Briggs, R.P., "Vision Test Battery Threshold and Response Time as Predictors of Air-to-air Visual Target Acquisition in F-14 and Adversary Aircraft." In Advisory Group for Aerospace Research and Development Conference Proceedings No. 396, pp. 39-1 to 39-8, December 1985.
- Mulligan, B.E., Goodman, L.S., Gleisner, D.P., and Faupel, M.L., "Steps in Loudness Summation." Journal of the Acoustical Society of America, Vol. 77, No. 3, pp. 1141-1154, 1985.
- Olsen, R.G., "Compatibility of Behavioral Research Techniques With Microwave Irradiation: Some Instrumentation-related Problems That Impede Creativity." In J.C. Monahan and J.A. D'Andrea (Eds.), Behavioral Effects of Microwave Radiation Absorption, HHS Publication FDA 85-8238, August 1985, pp. 155-159.
- Olsen, R.G., "Compatibility of Behavioral Research Techniques With Microwave Irradiation: Some Instrumentation-related Problems That Impede Creativity." In J.C. Monahan and J.A. D'Andrea (Eds.), Behavioral Effects of Microwave Radiation Absorption, HHS Publication FDA 85-8238, August 1985, pp. 155-159.
- Parkansky, R.E., Temporal Tuning Effects in the Visually Evoked Response, NAMRL Monograph 32, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1985. (AD A168 219)

- Angsubhakorn, S., Moe, J.B., Latendresse, J.R., Ward, G.S., Ngamprochana, M., Sahaphong, S., and Bhamarapravati, N., "The Neurovirulence of Flaviviruses in Crab-eating Monkeys (*Macaca fascicularis*)." Southeast Asian Journal of Tropical Medicine and Public Health, Vol. 17, pp. 604-612, December 1986.
- Damos, D.L. and Gibb, G.D., Development of a Computer-based Aviation Selection Test Battery, NAMRL-1319, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1986. (AD A179 997)
- D'Andrea, J.A., "Effects of Chronic Exposure to Microwave Radiation." In G.V. Kondraske and C.J. Robinson (Eds.), Proceedings of the 8th Annual Conference of the IEEE Engineering in Medicine and Biology Society, Fort Worth, TX, 1986, pp. 1512-1514.
- D'Andrea, J.A., DeWitt, J.R., Emmerson, R.Y., Bailey, C., Stensaas, S., and Gandhi, O.P., "Intermittent Exposure of Rats to 2450-MHz Microwaves at 2.5 mW cm²: Behavioral and Physiological Effects." *Bioelectromagnetics*, Vol. 7, pp. 315-328, 1986.
- D'Andrea, J.A., DeWitt, J.R., Gandhi, O.P., Stensaas, S., Lords, J.L., and Nielson, H.C., "Behavioral and Physiological Effects of Chronic 2450-MHz Microwave Irradiation of the Rat at 0.5 mW/cm²." Bioelectromagnetics, Vol. 7, pp. 45-56, 1986.
- Gibb, G.D., Nontasak, T., Thomas, A., and Helm, W.R., Development of a Naval Aviation Career Motivation Inventory, NAMRL-1317, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1986. (AD A168 218)
- Griffin, G.R. and McBride, D.K., Multitask Performance: Predicting Success in Naval Aviation Primary Flight Training, NAMRL-1316, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1986. (AD A168 246)
- Griner, T.A. and Olsen, R.G., A Comparison of the Specific Absorption Rate in a Homogeneous Man Model and a Man Model Containing Realistic Model Bones, NAMRL-1315, Naval ... crospace Medical Research Laboratory, Pensacola, FL, January 1986. (AD A168 547)
- Hamilton, P.V. and Morris, A., Effect of the Neutral Density Helmet Visor on the Visual Acuity of Navy Fighter Pilots, NAMRL-1325, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1986. (AD A178 486)
- Lambirth, T.T., Gibb, G.D., and Alcorn, J.D., "Use of a Behavior-based Personality Instrument in Aviation Selection." *Educational and Psychological Measurement*, Vol. 46, No. 4, pp. 973-978, Winter 1986. (AD A183 714)
- Lentz, J.M., Reams, G.G., and DeJohn, C.A., Biomedical Effects of Chemical-threat-agent Antidote and Pretreatment Drugs: An Abstracted Bibliography, Volume I, NAMRL Monograph 34, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1986. (AD A176 371)
- Lotz, W.G., Saxton, J.L., Griner, T.A., and Grissett, J.D., Growth and Development of Rhesus Monkeys Exposed to ELF Electric and Magnetic Fields During the First 54 Months of Life, NAMRL-1318, Naval Aerospace Medical Research Laboratory, Pensacola, FL, May 1986. (AD A168 733)

- Morris, A. and Hamilton, P.V., Visual Acuity and Reaction Time in Navy Fighter Pilots, NAMRL-1324, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1986. (AD A178 485)
- Murdoch, D.M., Crisman, R.P., and Meyer, L.G., "Effects of Physical Training on G-Tolerance." Navy Physiology Newsletter, pp. 14-16, October 1986.
- Nontasak, T., Gibb, G.D., Thomas, A., and Goodman, L.S., Naval Flight Officer Instructor Pipeline Influence and Job Satisfaction, NAMRL-1322, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1986. (AD A174 737)
- Nontasak, T., Goodman, L.S., Thomas, A., and Gibb, G.D., Factors Influencing Student Naval Flight Officer Pipeline Preference, NAMRL-1321, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1986. (AD A172 267)
- Olsen, R.G., "Measurement of Specific Absorption Rate (SAR) in the Workplace." In G.V. Kondraske and C.J. Robinson (Eds.), Proceedings of the 8th Annual Conference of the IEEE Engineering in Medicine and Biology Society, Fort Worth, TX, 1986, pp. 1517-1519.
- Olsen, R.G., "Radiofrequency Radiation Hazards: The Electromagnetic Compatibility of Man." In Symposium Record, EMC EXPO 86, International Conference on Electromagnetic Compatibility, EMC Technology Magazine, Gainsville, VA, 1986, pp. T24.8-11.
- Temme, L.A. and Monaco, W.A., The Retinal Image of the Fresnel Lens Optical Landing System, NAMRL-1323, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1986. (AD A176 090)
- Thomas, G.B. and Williams, C.E., Noise Susceptibility: A Comparison of Two Naval Aviator Populations, NAMRL-1320, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1986. (AD A172 222)
- Tingpalapong, M., Hoke, C.H., Ward, G.S., Burke, D.S., Elwell, M.R., Lohytyothin, S., Saisombat, S., "Anti-rabies Virus IgM in Serum and Cerebrospinal Fluid From Rabid Dogs." Southeast Asian Journal of Tropical Medicine and Public Health, Vol. 17, pp. 550-557, December 1986.
- Wherry, R.J., Ir., Theoretical Development for Identifying Underlying Internal Processes: Volume 1. The Theory of Underlying Internal Processes, NAMRL/NADC Joint Report, NAMRL Special Report 86-1/NADC 86105-60, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1986. (AD A176 466)
- Wherry, R.J., Jr., Theoretical Development for Identifying Underlying Internal Processes: Volume 2.

 Modifications to Hierarchical Factor Analysis: Positive Manifold (POSMAN) Rotations,

 NAMRL/NADC Joint Report, NAMRL Special Report 86-2/NADC 86105-60, Naval Aerospace

 Medical Research Laboratory, Pensacola, FL, September 1986. (AD A176 349)
- Wherry, R.J., Jr., Theoretical Development for Identifying Underlying Internal Processes: Volume 3. Random Sampling of Domain Variances: A New Experimental Methodology, NAMRL/NADC Joint Report, NAMRL Special Report 86-3/NADC 86105-60, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1986. (AD A176 350)

1986

- 86-4/NADC 86105-60, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1986. (AD A176 351)
- White, J.T. and Morin, L.M.E., Incompatibility of the M-1 Maneuver With U.S. Navy Tactical Aircraft Oxygen Systems, NAMRL Technical Memorandum 86-1, Naval Acrospace Medical Research Laboratory, Pensacola, FL, September 1986. (AD A183 731)
- York, E., Mitchell, R.E., and Graybiel, A., "Cardiovascular Epidemiology, Exercise, and Health: 40-Year Follow-up of the U.S. Navy's '1000 Aviators.' "Aviation Space & Environmental Medicine, Vol. 57, No. 6, pp. 597-599, June 1986.

- Banta, G.R. and Grissett, J.D., Relationship of Cardiopulmonary Fitness to Flight Performance in Tactical Aviation, NAMRL-1329, Naval Aerospace Medical Research Laboratory, Pensacola, FL, January 1987. (AD A180 417).
- Banta, G.R., Ridley, W.C., McHugh, J., Grissett, J.D., and Guedry, F.E., Jr., "Aerobic Fitness and Susceptibility to Motion Sickness." Aviation Space & Environmental Medicine, Vol. 58, pp. 105-108, February 1987. (AD A180 107).
- Damos, D.L., Some Considerations in the Design of a Computerized Human Information Processing Battery, NAMRL Monograph 35, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1987. (AD A199 491)
- D'Andrea, J.A. and Cobb, B.L., High Peak Power Microwave Pulses at 1.3 GHz: Effects on Fixed Interval and Reaction Time Performance in Rats, NAMRL-1337, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1987. (AD A199 489)
- D'Andrea, J.A., Emmerson, R.Y., DeWitt, J.R., and Gandhi, O.P., "Absorption of Microwave Radiation by the Anesthetized Rat: Electromagnetic and Thermal Hotspots in Body and Tail."

 Bioelectromagnetics, Vol. 8, No. 4, pp. 385-396, 1987.
- D'Andrea, J.A. and Gandhi, O.P., Behavior, Physiology, and Energy Deposition in Rats Chronically Exposed to 2450-MHz Radiation, Contract No. 68-02-3456, U.S. Environmental Protection Agency, Research Triangle Park, NC, September 1987.
- DeJohn, C.A. and Hochhaus, L. Practice Requirements for Cognitive and Manual Tasks on the NEC 8201A Microprocessor, NAMRL Special Report 87-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1987. (AD A183 383)
- DeWitt, J.R., D'Andrea, J.A., Emmerson, R.Y., and Gandhi, O.P., "Behavioral Effects of Chronic Exposure to 0.5 mW/cm² of 2,450 MHz Microwaves." *Bioelectromagnetics*, Vol. 8, No. 2, pp. 149-157, 1987. (AD A183 383)
- Dolgin, D.L., Gibb, G.D., Nontasak, T., and Helm, W.R., Instructor Pilot Evaluations of Key Naval Primary Flight Training Criteria, NAMRL-1331, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1987. (AD A183 793)
- Dolgin, D.L., Shull, R.N., And Gibb, G.D., "Risk Assessment and the Prediction of Student Pilot Performance." In R.S. Jenson (Ed.), *Proceedings of the 4th International Symposium on Aviation Psychology*, Columbus, OH, April 27-30, 1987, pp. 480-485. (AD A201 793)
- Gibb, G.D., "Development of a Computer-based Naval Aviation Selection Test Battery." Proceedings of the 29th Annual Conference of the Military Testing Association, Ottawa, Canada, October 19-23, 1987, pp. 619-624.
- Gibb, G.D., Nontasak, T., Dolgin, D.L., and Helm, W.R., Factors That Influence Career Motivation in the Fighter Community, NAMRL-1326, Naval Aerospace Medical Research Laboratory, Pensacola, FL, January 1987. (AD A178 487)

- Griffin, G.R., Development and Evaluation of an Automated Series of Single- and Multiple-dichotic Listening and Psychomotor Tasks, NAMRL-1336, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1987. (AD A199 490)
- Griffin, G.R., Morrison, T.R., Amerson, T.L., and Hamilton, P.V., Predicting Air Combat Maneuvering (ACM)

 Performance: Fleet Fighter ACM Readiness Program Grades as Performance Criteria, NAMRL-1333,

 Naval Aerospace Medical Research Laboratory, Pensacola, FL, October 1987. (AD A191 605)
- Griffin, G.R. and Williams, C.E., "The Effects of Different Levels of Task Complexity on Three Vocal Measures." Aviation Space & Environmental Medicine, Vol. 58, No. 12, pp. 1165-1170, December 1987. (AD A201 791)
- Knepton, J. and Cobb, B., Evaluation of Drugs for Prevention of Hypothermia in Rats Exposed to Microwave Irradiation, NAMRL-1328, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1987. (AD A180 111)
- Latendresse, J.R., Ngampochjana, M., and Ward, G.S., "Portwine Nevus-like Arteriovenous Malformation in a Rhesus Monkey (Macaca mulatta)." Veterinary Pathology, Vol. 24, pp. 197-199, February 1987.
- Lentz, J.M., Turnipseed, G.T., and Hixson, W.C., Tracking a Laser-projected Horizon Indicator, NAMRL-1330, Naval Aerospace Medical Research Laboratory, Pensacola, FL, May 1987. (AD A183 384)
- Lotz, W.G. and Saxton, J.L., "Growth and Sexual Maturation of Rhesus Monkeys Chronically Exposed to ELF Electric and Magnetic Fields." In L.E. Anderson, B.J. Kelman, and R.J. Weigel (Eds.), Interaction of Biological Systems With Static and ELF Electric and Magnetic Fields, Proceedings of the 23rd Hanford Life Sciences Symposium, Pacific Northwest Laboratory, Richland WA, 1987, pp. 347-364.
- Lotz, W.G. and Saxton, J.L., "Metabolic and Vasomotor Responses of Rhesus Monkeys Exposed to 225-MHz Radiofrequency Energy." *Bioelectromagnetics*, Vol. 8, pp. 73-89, 1987. (AD A180 107)
- Maxwell, D.W., Williams, C.E., Robertson, R.M., and Thomas, G.B., Performance Characteristics of Active Hearing Protection Devices." Sound and Vibration, Vol. 21, No. 5, pp. 14-18, May 1987. (AD A183 678)
- Murdoch, D.M., Lentz, J.M., Reams, G.G., and DeJohn, C.A., Triazolam-Performance Side Effects:

 Vestibular, Musculoskeletal, and Complex Performance Tests, NAMRL-1327, Naval Aerospace

 Medical Research Laboratory, Pensacola, FL, March 1987. (AD A180 934)
- Murdoch, D.M. and Meyer, L.G., "Pumping for Power." Naval Aviation News, Vol. 69, No. 5, p. 26, Sep-Oct 1987.
- Murdoch, D.M., Meyer, L.G., and Crisman, R.P., Effects of Physical Fitness on G-Tolerance, NAMRL Research Information Bulletin 87-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, January 1987.
- Olsen, R.G., "Resonant Radio Frequency Coil System for Heating Deep Tissue." Proceedings of the 9th Annual Conference of the IEEE Engineering in Medicine and Biology Society, Vol. 3, pp. 1324-1325, November 1987.

- Olsen, R.G., Ballinger, M.B., David, T.D., and Lotz, W.G., "Rewarming of the Hypothermic Rhesus Monkey With Electromagnetic Radiation." *Bioelectromagnetics*, Vol. 8, pp. 183-193, 1987. (AD A201 792)
- Olsen, R.G. and Griner, T.A., "Specific Absorption Rate in Models of Man and Monkey at 225 and 2,000 MHz." *Bioelectromagnetics*, Vol. 8, No. 4, pp. 377-384, 1987.
- Parker, J.B., "Aviation Clinical Psychology." Military Medicine, Vol. 152, No. 7, pp. 348-350, July 1987. (AD A204 027)
- Temme, L.A. and Ricks, E.L., The Accommodative Status in the Dark of U.S. Navy Fighter Pilots, NAMRL-1332, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1987. (AD A188 188)
- Thomas, G.B., Williams, C.E., and Raney, J.F., The Development of Performance-based Auditory Aviation Classification Standards in the U.S. Navy, NAMRL-1335, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1987. (AD A199 488)
- Thornton, M. and Morey, W.A., Selected Aspects of Triazolam in Relation to Aviator Performance in Naval Flight Operations, NAMRL Technical Memorandum 87-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1987. (AD A189 322)
- Warrell, M.J., Ward, G.S., Elwell, M.R., and Tingpalapong, M., "An Attempt to Treat Rabies Encephalitis in Monkeys With Intrathecal Live Rabies Virus RV 675." Archives of Virology, Vol. 96, pp. 271-273, May 1987.

- Anthropometry and Mass Distribution for Human Analogues Vol. I: Military Male Aviators, Joint Report:

 AAMRL-TR-88-010, NAMRL-1334, NADC-88036-60, NBDL 87R003, USAFSAM-TR-88-6, and
 USAARL 88-5; Tri-service Committee of the Tri-service Aeromedical Research Panel, Ft. Rucker,
 AL, March 88. (AD A197 650)
- Burton, R.R., Cohen, M.M., and Guedry, F.E., Jr., "G-induced Loss of Consciousness: A Panel Presentation of the Science and Technology Committee 1986 Annual Scientific Meeting of the Aerospace Medical Association." Aviation Space & Environmental Medicine, Vol. 59, No. 1, pp. 1-39, January 1988. (AD A201 385)
- Crisman, R.P. and Burton, R.R. (Eds.), Physical Fitness to Enhance Aircrew G-Tolerance,
 USAFSAM-SR-88-1/NAMRL-1334 Joint Report, USAF School of Aerospace Medicine, Brooks Air
 Force Base, TX, and the Naval Aerospace Medical Research Laboratory, Pensacola, FL, March
 1988. (AD A204 689)
- Cushman, W.B. and Temme, L.A., A Technical Refinement of the Vemier Optometer, NAMRL-1340, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1988. (AD A200 396)
- D'Andrea, J.A., DeWitt, J.R., Portuguez, L.M., and Gandhi, Om.P., "Reduced Exposure to Microwave Radiation by Rats: Frequency Specific Effects." In M.E. O'Connor and R.H. Lovely (Eds.), Electromagnetic Fields and Neurobehavioral Function, Progress in Clinical and Biological Research, Vol. 257, Alan R. Liss, Inc., New York, 1988, pp. 289-308.
- D'Andrea, J.A. and Knepton, J., "Construction and Implementation of a Low-cost Electronic Experiment Control Interface." *Behavior Research Methods, Instruments, & Computers*, Vol. 20, No. 2, pp. 97-99, April 1988. (AD A201 788)
- Dolgin, D.L. and Gibb, G.D., A Review of Personality Measurement in Aircrew Selection, NAMRL Monograph 36, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1988. (AD A200 392)
- Dolgin, D.L. and Gibb, G.D., "Personality Assessment in Aviation Selection: Past, Present, and Future." In R. Jensen (Ed.), Aviation Psychology: The International Contribution, Gower Publishing Group, London, 1988, pp. 285-319.
- Gibb, G.D. and Dolgin, D.L., "Validation of a Computer-based Aviation Secondary Selection System for Student Naval Aviators." *Proceedings of the Human Factors Society 32nd Annual Meeting*, Anaheim, CA, 1988, pp. 807-811.
- Gibb, G.D. and Griffin, G.R., "An Improved Automated Selection System for Navy Pilots." Personality and Individual Differences in Human Performance Newsletter, Vol. 1, No. 1, unpaged, March 1988.
- Gibb, G.D., Nontasak, T.N., and Dolgin, D.L., "Factors Affecting Career Retention Among Naval Aviators."

 Journal of Business Psychology, Vol. 2, No. 4, pp. 321-326, August 1988. (AD A203 250)
- Griffin, G.R., An Improved Automated Selection System for Navy Pilots, NAMRL Research Information Bulletin 88-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1988.

 (AD A203 438)

- Griffin, G.R., "Evaluation of an Automated Series of Single and Multiple Psychomotor and Dichotic Listening Tasks." *Proceedings of the Human Factors Society 32nd Annual Meeting*, Anaheim, CA, 1988, pp. 812-817.
- Griffin, G.R., Predicting Air Combat Maneuvering (ACM) Performance: Fleet Fighter ACM Readiness Program Grades as Performance Criteria, NAMRL Research Information Bulletin 88-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1988. (AD A203 530)
- Griffin, G.R. and Mosko, J.D., "Improved Multi-task Performance Using Voice Response on a Synthetic Flight Task." AVIOS, Vol. 5, pp. 35-44, July 1988.
- Guedry, F.E., Jr., "Motion Cues in Flight Simulator-induced Sickness." Technical Evaluation Report, Advisory Group for Aerospace Research and Development Conference Proceedings No. 433, Brussels, June 1988.
- Hixson, W.C., Guedry, F.E., Jr., and Lentz, J.M., Further Progress in Development of a Performance-based Test of Gaze Control Capability, NAMRL-1342, Naval Aerospace Medical Research Laboratory, Peusacola, FL, September 1988. (AD A204 394)
- Jell, R.M., Stockwell, C.W., Turnipseed, G.T., and Guedry, F.E., Jr., "The Influence of Active Versus Passive Head Oscillation and Mental Set on the Human Vestibulo-ocular Reflex." Aviation Space & Environmental Medicine, Vol. 59, pp. 1061-1065, November 1988.
- Lotz, W.G. and Saxton, J.L., "Thermoregulatory Responses in the Rhesus Monkey During Exposure at Frequency (225 MHz) Near Whole-body Resonance." In M.E. O'Connor and R.H. Lovely (Eds.), Electromagnetic Fields and Neuro-behavioral Function, Progress in Clinical and Biological Research, Vol. 257, Alan R. Liss, Inc., New York, 1988, pp. 203-218.
- Marr, M.J., de Lorge, J.O., Olsen, R.G., and Stanford, M., "Microwaves as Reinforcing Events in a Cold Environment." In M.E. O'Connor and R.H. Lovely (Eds.), *Electromagnetic Fields and Neurobehavioral Function*, Progress in Clinical and Biological Research, Vol. 257, Alan R. Liss, Inc., New York, 1988, pp. 219-234. (AD A201 789)
- Morey, W.A., Dowell, G., and Kamimori, G.H., "Caffeine and the Naval Aviator." Approach, Vol. 34, No. 3, pp. 8-10, September 1988.
- Morris, A., Temme, L.A., and Hamilton, P.V., "What's Wrong With the Aviator's Helmet Sun Visor?"

 Report of the 28th Meeting of the Air Standardization Coordinating Committee (ASCC) Working Pany
 61, Aerospace Medical and Life Support Systems, Naval Aerospace Medical Research Laboratory,
 Pensacola, FL, 25 April-6 May 1988, Vol. IV, pp. M-6-1 to M-6-16.
- Morrison, T.R., Complex Visual Information Processing: A Test for Predicting Navy Primary Flight Training Success, NAMRL-1338, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1988. (AD A200 394)
- Nontasak, T., Gibb, G.D., and A. Thomas, "Determinants of Naval Flight Officer Program Entry and Pipeline Choices." Aviation Space & Environmental Medicine, Science News Note, Vol. 59, No. 1, pp. 74-77, January 1988.

- Olsen, R.G. and Forstall, J.R., Electromagnetic Heating in a Model of Frozen Red Blood Cells, NAMRL-1343, Naval Aerospace Medical Research Laboratory, Pensacola, FL, October 1988. (AD A204 119)
- Percival, L.C. and Guedry, F.E., Jr., "Performance-based Assessment of Oculomotor Efficiency." Aviation Space & Environmental Medicine, Vol. 59, No. 2, pp. 113-120, February 1988. (AD A201 391)
- Reeves, D.L., Blackwell, O.G., Temme, L.A., Williams, C.E., and Thomas, G.B., "Multidisciplinary Performance Test Battery: Effects of 4-mg Atropine Sulfate Injections on Aviators." In Proceedings of the AMP 65th Panel Meeting/Symposium on Aeromedical and Performance Aspects of Aircrew Operations in a Chemical Environment, Advisory Group for Aerospace Research and Development, Madrid, Spain, 23-27 May 1988.
- Reeves, D.L., Thorne, D.R., Winter, S.L., and Hegge, F.W., The Unified Tri-service Cognitive Performance Assessment Battery (UTC-PAB) II: Hardware/Software Design and Specifications, NAMRL Special Report 89-1/JWGD³ MILPERF SR89-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1988. (AD A219 600)
- Severin, K.H., "Personality, Individual Differences and Pilot Selection." Personality and Individual Differences in Human Performance Newsletter, Vol. 1, No. 1, unpaged, March 1988.
- Shull, R.N., Dolgin, D.L., and Gibb, G.D., The Relationship Between Flight Training Performance, a Risk Assessment Test, and the Jenkins Activity Survey, NAMRL-1339, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1988. (AD A200 395)
- Stanny, R.R., Mapping Surface Fields in Studies of Event-related Potentials of the Brain: Theoretical Issues, Technical Considerations, and Computer Programs, NAMRL Special Report 88-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, October 1988. (AD A204 120)
- Temme, L.A. and Cushman, W.B., Comparison Between the Laser-badal and Vernier Optometers, NAMRL-1341, Naval Aerospace Medical Research Laboratory, Pensacola, FL, October 1988. (AD A204 393)
- Temme, L.A., Ricks, E., and Morris, A., "Dark Focus Measured in Navy Jet Tactical Fighter Pilots."

 Aviation Space & Environmental Medicine, Vol. 59, No. 2, pp. 138-141, February 1988.

 (AD A201 390)
- Thomas, G.B. and Williams, C.E., "Noise Susceptibility: A Comparison of Two Naval Aviator Populations." In *Proceedings of the 5th International Congress on Noise as a Public Health Problem*, Stockholm, Sweden, 21-25 August 1988, Vol. 2, pp. 195-201.
- White, J.T. and Morin, L.M.E., "Anti-G Straining Maneuver Incompatibility With Tactical Aircraft Oxygen Systems." Aviation Space & Environmental Medicine, Technical Note, Vol. 59, No. 2, pp. 176-177, February 1988.

- Cushman, W.B., A Scheiner-principle Pocket Optometer for Self-evaluation and Biofeedback Accommodation Training, NAMRL-1344, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1989. (AD A213 171)
- Damos, D.L., A Review of Circadian Effects on Selected Human Information Processing Tasks, NAMRL Monograph 37, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1989. (AD A214 673)
- Damos, D.L., Identifying the Circadian Cycle in Human Information Processing Data Using Periodicity

 Analysis: A Synopsis, NAMRL Technical Memorandum 89-1, Naval Acrospace Medical Research
 Laboratory, Pensacola, FL, April 1989. (AD A214 674)
- D'Andrea, J.A., Cobb, B.L., and de Lorge, J.O., "Lack of Behavioral Effects in the Rhesus Monkey: High Peak Microwave Pulses at 1.3 (Hz." Bioelectromagnetics, Vol. 10, No. 1, pp. 65-76, January 1989. (AD A208 988)
- D'Andrea, J.A. and Knepton, J., Effect of Laser Glare and Aircraft Windscreen on Visual Search Performance Under Low Ambient Lighting, NAMRL-1350, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1989. (AD A219 456)
- D'Andrea, J.A., Knepton, J., Cobb, B.L., Klauenberg, B.J., Merritt, J.H., and Erwin, D.N., High Peak Power Microwave Pulses at 2.37 GHz: No Effect on Vigilance Performance in Monkeys, NAMRL-1348/USAFSAM-TR-89-21, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1989. (AD A219 570)
- D'Andrea, J., Knepton, J., and de Lorge, J.O., Effects of Cholinergic Drugs on Exercise Performance and Simple Reaction Time of Rhesus Monkeys, NAMKL-1349, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1989. (AD A219 455)
- Dolgin, D.L., "Personality Assessment in Aviation Selection." In Advisory Group for Aerospace Research and Development Conference Proceedings No. 458, The Hague, The Netherlands, 24-28 October 1988, pp. 16-1 to 16-7, 1989.
- Dolgin, D.L. and Gibb, G.D., "Personality Assessment in Aviator Selection." In R.S. Jensen (Ed.), Aviation Psychology, Gower Publishing Co., Brookfield, VT, 1989, pp. 288-320. (AD A210 288)
- Gibb, G.D. and Dolgin, D.L., "Predicting Military Flight Training Success by a Compensatory Tracking Task." *Military Psychology*, Vol. 1, No. 4, pp. 235-240, October 1989.
- Hesslink, R.L., Jr., Pepper, S., Olsen, R.G., Lewis, S.B., and Homer, L.D.. "Radio Frequency (13.56 MHz)

 Energy Enhances Recovery From Mild Hypothermia." *Journal of Applied Physiology*, Vol. 67, No. 3, pp. 1208-1212, September 1989.
- Hixson, W.C., Development of a Performance-based Test of Gaze Compatibility: A Threshold Approach, NAMRL-1345, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1989. (AD A214 675)

- Hixson, W.C., Molina, E.A., Prettyman, G.D., and Grissett, J.D., Development of Three Mobile Field Laboratories for the Field Acquisition of Biomedical Performance Data, NAMRL Special Report 89-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1989. (AD A212 597)
- Horrigan, D.J., Jr. and Lotz, W.G., A Comparison of the Mechanisms of Cold- and Microgravity-induced Fluid Loss, NAMRL Technical Memorandum 89-3, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1989. (AD A218 098)
- Lambirth, T.T., Dolgin, D.L., and Carretta, T.R., "Selected Personality Characteristics of Student Naval Aviators." Proceedings of the EURO-NATO Aircrew Selection Working Group 12th Meeting, London, 1989, pp. 1-8 Annex H/Dofr(RAF)/23/29.
- Lentz, J.M., Norman, J.W., Turnipseed, G.T., and Hixson, W.C., Effects of 2 and 4 mg Atropine Sulfate on Vestibular, Cognitive Performance, and Other Responses, NAMRL-1346, Naval Acrospace Medical Research Laboratory, Pensacola, FL, July 1989. (AD A238 190)
- Lentz, J.M., Turnipseed, G.T., and Hixson, W.C., Tracking a Laser-projected Horizon Indicator: Some Further Developments, NAMRL-1351, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1989. (AD A239 189)
- Morey, W.A., Lentz, J.M., and Olafson, R.P., Beta-blockers: An Abstracted Bibliography, NAMRL Monograph 38, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1989. (AD A210 055)
- Morris, A. and Temme, L.A., "The Time Required for U.S. Navy Fighter Pilots to Shift Gaze and Identify Near and Far Targets." Aviation Space & Environmental Medicine, Vol. 60, No. 11, pp. 1085-1089, November 1989. (AD A219 467)
- Nontasak, T., Dolgin, D.L., and Griffin, G.R., "Performance-based Tests, Personality Attributes, and Training Outcome Among Landing Craft Air Cushion (LCAC) Vehicle Operators." *Proceedings of the Human Factors Society 33rd Annual Meeting*, Denver, CO, 1989, pp. 901-904.
- Olsen, R.G. and Bowman, R.R., "Simple Nonperturbing Temperature Probe for Microwave/Radio Frequency Dosimetry." Bioelectromagnetics, Vol. 10, No. 2, pp. 209-213, 1989. (AD A208 317)
- Clsen, R.G. and Griner, T.A., "Outdoor Measurement of SAR in a Full-sized Human Model Exposed to 29.9 MHz in the Near Field." *Bioelectromagnetics*, Vol. 10, No. 2, pp. 161-171, 1989. (AD A208 392)
- Reams, G.G. and Morey, W.A., *Triazolam: An Abstracted Bibliography*, NAMRL Monograph 40, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1989. (AD A218 099)
- Reeves, D.L., Blackwell, O.G., Molina, E.A., and Hixson, W.C., "New Methodologies for Assessing Effects of Pharmaceutical Compounds on Military Performance." *Proceedings of the 1989 Medical Defense Bioscience Review*, Columbia, MD, 15-17 August 1989, pp. 869-872. (AD A227 495)
- Reeves, D.L. and Gadolin, R.E., Sustained/Continuous Operations of the DoD Human Factors Engineering Technical Group: Program Summary and Abstract From the 8th Annual Meeting, NAMRL Technical Memorandum 89-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1989.

 (AD A208 819)

- Rupert, A., Mateczun, A., and Guedry, F.E., Jr., "Maintaining Spatial Awareness." Proceedings of the AGARD/AMP 68th Panel Meeting and Symposium on Situational Awareness in Aerospace Operations, 2-6 October 1989, Copenhagen, Denmark, pp. 21-1 to 25-1.
- Shamma, S.E., Molina, E.A., and Stanny, R.R., Micro SAINT Programs for Numerical Methods of Integration and Differential Equations, NAMRL Monograph 39, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1989. (AD A218 097)
- Shamma, S., Stanny, R., Laughery, R., Platt, C., and Sherry, D., "Computer Aided Modeling of Cognitive Performance Assessment Tests Using the Micro SAINT Software." Institute for Statistical and Mathematical Modeling, The University of West Florida, Pensacola, FL, February 1989.
- Shull, R.N. and Dolgin, D.L., "Personality and Flight Training Performance." Proceedings of the Human Factors Society 33rd Annual Meeting, Denver, CO, 1989, pp. 891-895.
- Stanny, R.R., Mental Lapses and Event-related Potentials, NAMRL-1347, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1989. (AD A219 454)
- Stanny, R., Shamma, S., Laughery, R., Platt, C., Crisman, R., and Sherry, D., "Modeling the Unified Tri-service Cognitive Performance Assessment Battery." *Proceedings of the 1989 Medical Defense Bioscience Review*, Columbia, MD, 1989, pp. 793-796.
- Temme, L.A. and Morris, A., "Speed of Accommodation and Age." Optometry and Vision Science, Vol. 66, No. 2, pp. 106-112, February 1989. (AD A219 468)

- Blower, D.J., Analysis of Naval Aviation Selection Test Data With Nonlinear Models. Part I. Parameter Estimation, NAMRL Technical Memorandum 90-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1990. (AD A238 244)
- Blower, D.J. and Dolgin, D.L., "An Evaluation of Performance-based Tests Designed to Predict Success in Primary Flight Training." In *Proceedings of the Human Factors Society 34th Annual Meeting*, Orlando, FL, 8-12 October 1990, pp. 949-953.
- Blower, D.J., Dolgin, D.L., and Shull, R.N., "Naval Aviation Selection Test Scores and Female Aviator Performance." In Advisory Group for Aerospace Research and Development Conference Proceedings No. 491, Tours, France, 4-5 April 1990, pp. 6-1 to 6-5.
- D'Andrea, J.A., Cobb, B.L., Knepton, J., Shull, R.N., Klauenberg, B.J., Merritt, J.H., and Erwin, D.N., No Effects of High-peak-power Microwave Pulses at 2.36 GHz on Behavioral Performance in Monkeys, NAMRL-1358/USAFSAM-TR-90-14, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1990.
- D'Andrea, J.A. and de Lorge, J.O., "Behavioral Effects of Electromagnetic Fields." In O.P. Gandhi (Ed.), Biological Effects and Medical Applications of Electromagnetic Energy, Prentice Hall, Englewood Cliffs, NJ, 1990, pp. 319-338.
- Delaney, H.D., Validation of Dichotic Listening and Psychomotor Task Performance as Predictors of Primary Flight Training Criteria: Highlighting Relevant Statistical Issues, NAMRL-1357, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1990. (AD A227 010)
- Dolgin, D.L. and Nontasak, T., "Initial Validation of a Personnel Selection System for Landing Craft Air Cushion (LCAC) Vehicle Operators." *Proceedings of the Psychology in the Department of Defense 12th Symposium*, 18-20 April 1990, USAFA-TR-90-1, pp. 245-249. (AD A221 877)
- Griffin, G.R. and Shull, R.N., Predicting F/A-18 Fleet Replacement Squadron Performance Using an Automated Battery of Performance-based Tests, NAMRL-1354, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1990. (AD A223 899)
- Guedry, F.E., Norman, J., Turnipseed, G., and Rupert, A., Vestibular Responses and Motion Sickness During Pitch, Roll, and Yaw Sinusoidal Whole-body Oscillation, NAMRL-1352, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1990. (AD A223 898)
- Guedry, F.E. and Oman, C.M., Vestibular Stimulation During a Simple Centrifuge Run, NAMRL-1353, Naval Aerospace Medical Research Laboratory, Pensacola, FL, May 1990. (AD A227 285)
- Holmes, G.P., Hilliard, J.K., Klontz, K.C., Rupert, A.H., Schindler, C.M., Parrish, E., Griffin, G., Ward, G.S., Bernstein, N.D., Bean, T.W., Ball, M.R., Sr., Brady, J.A., Wilder, M.H., and Kaplan, J.E., "B-Virus (Herpesvirus simiae) in Humans: Epidemiologic Investigation of a Cluster." Annals of Internal Medicine, Vol. 112, No. 11, pp. 833-839, June 1990.
- Marsh, J.S. and Temme, L.A., "Optical Factors in Judgments of Size Through an Aperture." Human Factors, Vol. 32, No. 1, pp. 109-118, February 1990.

- Meyer, L.G. and DeJohn, C.A., Sustained Flight Operations in Navy P-3 Aircraft, NAMRL-1355, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1990. (AD A226 412)
- Neri, D.F. and Gadolin, R.E., Sustained/Continuous Operations Subgroup of the Department of Defense
 Human Factors Engineering Technical Group: Program Summary and Abstracts From the 9th
 Semiannual Meeting, NAMRL Special Report 90-1, Naval Aerospace Medical Research Laboratory,
 Pensacola, FL, March 1990. (AD A223 901)
- Nontasak, T. and Dolgin, D.L., "Differences in Time-sharing Ability Between Successful and Unsuccessful Trainees in the Landing Craft Air Cushion Vehicle." *Proceedings of the Human Factors Society 34th Annual Meeting*, Orlando, FL, 8-12 October 1990, pp. 959-961.
- Olsen, R.G., "Radiofrequency Detection by Bubble Dosemeter Technology." Radiation Protection Dosimetry, Vol. 33. pp. 381-384, 1990.
- Olsen, R.G., "RF Energy for Warming Divers' Hands and Feet." In M.E. O'Connor, R.H.C. Bentall, and J.C. Monahan (Eds.), *Emerging Electromagnetic Medicine*, Springer-Verlag, New York, 1990, pp. 135-143. (AD A221 526)
- Olsen, R.G. and Forstall, J.R., Comparison of Radiofrequency Energy and Warmwater Thawing of Cryopreserved Red Blood Cells, NAMRL-1360, Naval Acrospace Medical Research Laboratory, Pensacola, FL, December 1990. (AD A238 188)
- Reddix, M.D., DeVietti, T.L., Knepton, J.C., and D'Andrea, J.A., The Effects of Three Levels of Laser Glare on the Speed and Accuracy of Target Location Performance When Viewing a Briefly Presented Visual Array, NAMRL-1359, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1990. (AD A238 565)
- Robertson, R.M., Greene, J.W., Williams, C.E., and Maxwell, D.W., Noise Exposure of Naval Communication Station Radio Operators: A Field Study, NAMRL Technical Memorandum 90-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, July 1990. (AD A227 212)
- Saxton, J. and Lotz W.G., "Growth of Rhesus Monkeys During the First 54 Months of Life." Journal of Medical Primatology, Vol. 19, pp. 119-136, 1990. (AD A223 481)
- Schallhorn, S., Daill, K., Cushman, W.B., Unterreiner, R., and Morris, A., Visual Search in Air Combat, NAMRL Monograph 41, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1990. (AD A241 347)
- Shull, R.N., Performance of Marine AV-8B (Harrier) Pilots on a Cognitive/Psychomotor Test Battery: Pipeline Comparison and Prediction, NAMRL-1362, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1990. (AD A238 563)
- Shull, R.N. and Griffin, G.R., Performance of Several Different Naval Aviator Communities on a Cognitive/
 Psychomotor Test Battery: Pipeline Comparison and Prediction, NAMRL-1361, Naval Aerospace
 Medical Research Laboratory, Pensacola, FL, December 1990. (AD A238 564)
- Shull, R.N. and Griffin, G.R., Predicting F-14 Air Combat Maneuvering (ACM) Performance Using an Automated Battery of Cognitive/Psychomotor Tests, NAMRL-1356, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1990. (AD A228 593)

1990

- Stanny, R.R. and LaCour, S.J., An Artifact Filter for Event-related Potentials, NAMRL Special Report 90-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1990. (AD A223 900)
- Thomas, G.B. and Williams, C.E., "Noise Susceptibility: A Comparison of Two Naval Aviator Populations." Environment International, Vol. 16, pp. 363-371, 1990.

- Blower, D.J. and Dolgin, D.L., An Evaluation of Performance-based Tests Designed to Improve Naval Aviation Selection, NAMRL-1364, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1991.
- Cushman, W.B., The Influence of Subject Expectation on Visual Accommodation, NAMRL-1366, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1991.
- D'Andrea, J.A., "Microwave Radiation Absorption: Behavioral Effects." Health Physics, Vol. 61, No. 1, pp. 29-40, July 1991.
- Guedry, F.A. and Rupert, A.H., "Steady State and Transient G-Excess Effects." Technical Note, Aviation Space & Environmental Medicine, Vol. 62, pp. 252-253, March 1991.
- Hilton, T.F. and Dolgin, D.L., "Pilot Selection in the Military of the Free World." In R. Gal and A.D. Mangelsdorff (Eds.), Handbook of Military Psychology; John Wiley & Sons, Ltd., West Sussex, England, 1991, pp. 81-102.
- Marsh, J.S., Cushman, W.B., and L.A.. Temme, Toward the Ideal Military Aviation Sunglass, NAMRL-1365, Navai Aerospace Medical Research Laboratory, Pensacola, FL, November 1991.
- Mayer, K.S., Bibliography of Scientific Publications 1978-1990, Naval Aerospace Medical Research Laboratory, Pensacola, FL, September 1991. (AD A241 297)
- Molina, E.A. and Guedry, F.E., Initial Observations on Perceptual Responses and Disturbance Produced by the Vertifuge, NAMRL Special Report 91-1, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1991.
- Molina, E.A., Guedry, F.E., and Lentz, J.M., Dynasim: A Spatial Disorientation Research Tool, NAMRL Special Report 91-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1991.
- Morris, A., Temme, L.A., and Hamilton, P.V., "Visual Acuity of the U.S. Navy Jet Pilot and the Use of the Helmet Sun Visor." Aviation Space & Environmental Medicine, Vol. 62, No. 8, pp. 715-721, August 1991.
- Neisler, H.M., "Effects of Exercise on Laboratory Tests: An Overview." Clinical Laboratory Science, Vol. 4, No. 3, pp. 164-167, May/June 1991.
- Nontasak, T., Dolgin, D.L., and Blower, D.J., "Performance Differences in Psychomotor and Dichotic Listening Tests Among Landing Craft Air Cushion Vehicle Operator Trainees." *Proceedings of the Human Factors Society 35th Annual Meeting*, San Francisco, CA, 1991, pp. 987-990.
- Reeves, D.L., Stanny, R.R., Wilson, G.F., Herning, R.I., Pickworth, W., VanOrden, K.F., and Caldwell, J.A., The OMPAT Level I Neurophysiological Performance Assessment Battery: NPPAB, NAMRL Monograph 43, Naval Aerospace Medical Research Laboratory, Pensacola, Fl., December 1991.
- Reeves, D.L., Winter, K.P., LaCour, S.J., Raynsford, K.M., Vogel, K., and Grissett, J.D., The UTCPAB/ AGARD STRES Battery: User's Manual and System Documentation, NAMRL Special Report 91-3, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1991.

- Shamma, S.E., Stanny, R.R., Molina, E.A., and Morey, W.A., Micro SAINT Modeling of Physiological Responses and Human Performance in the Heat, NAMRL Monograph 42, Naval Aerospace Medical Research Laboratory, Pensacola, FL, March 1991. (AD A238 659)
- Shappell, S.A. and Bartosh, B.J., Use of a Commercially Available Flight Simulator During Aircrew Performance Testing, NAMRL Technical Memorandum 91-2, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1991.
- Temme, L.A., Ricks, E., Morris, A., and Sherry, D., "Visual Contrast Sensitivity of U.S. Navy Jet Pilots."

 Aviation Space & Environmental Medicine, Vol. 62, No. 11, November 1991.
- Temme, L.A. and Still, D.L., "Prescriptive Eyeglass Use by U.S. Navy Jet Pilots: Effects on Air-To-Air Target Detection." Aviation Space & Environmental Medicine, Vol. 62, No. 9, pp. 823-826, September 1991.
- Thomas, G.B. and Williams, C.E., The Development of Auditory Performance Standards for Naval Aviators:

 Radiocommunications Questionnaire Results, NAMRL Technical Memorandum 91-1, Naval

 Aerospace Medical Research Laboratory, Pensacola, FL, August 1991.
- Trejo, L.J., Inlow, M., Stanny, R.R., Morey, W.A., Makeig, S., Kobus, D.A., and Hillyard, S.A., The P300 Component of the Auditory Event-related Potential: Interlaboratory Consistency and Test-retest Reliability, NPRDC-TR-91-6/NAMRL-1363, Naval Personnel Research and Development Center, San Diego, CA, and Naval Aerospace Medical Research Laboratory, Pensacola, FL, April 1991.